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REPEATER JOURNAL

The Voice of the SouthEastern Repeater Assn., Inc

Published 4 times a Year by SERA, Inc.

Feb., Mar., Apr., 1993

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FOR LOCAL ASSISTANCE

Repeater owners and users are urged to contact local state SERA Directors/Vice Directors for assistance, information, coordination or other needs as required. Please call within reasonable hours and allow reasonable time for action! Remember SERA Officers work for you VOLUNTARILY. They receive NO Pay except for postage and telephone refunds!!

Editorial Comment

Is There Going To Be Trouble?

There seems to be trouble brewing between 2-Meter FM voice operators, and Packet (Digital) operators in several areas. A few digital operating persons have taken it upon themselves to operate packet in the middle of some of the 147 MHz voice simplex frequencies.

This is fairly common practice in quite a few areas, but nothing has come of it, other than a few complaints. It's hard to understand why operators of packet see fit to go up into the FM voice simplex frequencies, but I guess some of these operators feel they can do and go as they please.

Incidents brought to my attention recently, reportedly has an official of the FCC, who has agreed to look into the situation. He is quoted as saying that the digital people should not be operating in the voice simplex band. We have been unable to confirm or clarify if indeed the FCC would take notice of such a thing. Depends on how bad it gets, I guess.

I do know that the digital people operating on voice simplex frequencies are wrong. I know, coordinators have no police power, and all that stuff the offenders will certainly begin spouting. But it is a fact that for the past 20 years FM has been a reality in VHF and UHF, we have been able to keep some form of order on our bands, merely through cooperation of operators, and repeater owners, who voluntarily operate in the appropriate portions of the band which allows everyone some spectrum in which to work and have fun.

SERA does not coordinate packet or digital operation. That is left to the various digital societies in different states to take care of. SERA, which has responsiblity for frequency band planning has provided simplex frequencies assigned solely to digital operation, likewise frequencies for voice operation.

We would hope that the digital persons operating on voice simplex would consider moving back into the digital portion of the band. There are enough frequencies certainly to be able to operate properly and legally where you are supposed to. You can't blame the voice people for yelling. I would imagine the digital people would get quite upset if suddenly there was a heavy migration of high-powered simplex voice operation right on many of the digital simplex channels. You get my drift??

If you operate packet on voice simplex, please consider what we are asking. Amateur radio is a hobby where we can all have some fun. If you are improperly operating on the wrong frequencies, you are screwing up somebody elses fun. We certainly don't need that on the Amateur bands, there's enough stuff going on elsewhere in our lives.

There is also digital activity in the 145 MHz. portion of the band directly where satellite and weak signal assignments are made. Now this can really mess up a lot of people.

How about it folks! We don't need the FCC breathing down our necks on something that can be solved so easily. If it's a personal thing, give it up...its not worth it, for you, or for the many innocent hams who are being bothered by you.

Let's straighten it up while we can . . . okey!

-Wayne C. Williams, K4MOB, Editor

REPEATER JOURNAL

Feb., Mar., Apr., 1993
Volume 22, No. 1
ORGANIZED IN 1971
"Beginning Our 22nd Year"

The Voice of the SouthEastern Repeater Assn., Inc

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About SERA Associate Membership (Repeater Users)

Amateurs, especially repeater users, are invited to join SERA as Associate Members. Only $8.00 per year will enable Amateurs to support the organization and receive the ***Repeater Journal.*** Associate Membership deadlines are the 15th of the month preceding months of publication -- Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Tobaccoville Post Office Box by these deadlines to receive the next upcoming ***Repeater Journal,*** published the first week of February, May, August and November. Memberships received after any deadline will not receive next to-be-published ***Repeater Journal,*** but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships (***Repeater Journals*** mailed 1st Class rate) are limited to one year memberships at $14.25 per year. Regular membership ***Repeater Journals*** are mailed 3rd Class Bulk Mail. SERA does not issue receipts for Membership applications, nor are Journals forwarded to new addresses. If you move, we must be notified. Members should wait until next ***Repeater Journal*** comes out to report any problems. Write SERA Associate Membership, P.O. Box 215, Tobaccoville, N.C. 27050-0215. Associate Members may hold appointive offices and positions within the SouthEastern Repeater Association, Inc.

About SERA Full Repeater Membership (Repeater Owners)

Officers and Directors are elected from Repeater respresentatives who are SERA Full Members. Any repeater owner or club may join SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $20.00 should be submitted for the annual Full Membership fee. Two Full Members, named and listed on the application by the owner, receive the ***Repeater Journal*** from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index with a asterisk (*) code. All Full Memberships expire on December 31 of each year. Write SERA Membership, P.O. Box 215, Tobaccoville, N.C. 27050-0215.

About the SERA Repeater Journal

The SERA ***Repeater Journal*** is published quarterly, the first week of the months of February, May, August and November of each year and mailed free to members of SouthEastern Repeater Association, an eight state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material other than repeater indexes contained in the ***Repeater Journal.*** (See Important Note this page) provided proper credit is given. The ***Repeater Journal*** Editor will swap newsletters with other Repeater Councils, News organizations and clubs upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month, ONE month prior to publication. News deadlines are the first of the month prior to publication month. ***The Repeater Journal*** is entered as Third Class Mail at the Post Office in Greensboro, N.C. The ***Repeater Journal*** newstand cover price is $2.50 and is available from numerous retail Amateur Dealers in the surrounding 8-state area. (See list elsewhere this issue). All news and Newsletter exchanges should be mailed to the Editor: Wayne C. Williams K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

About the SouthEastern Repeater Association, Inc.

SERA, SouthEastern Repeater Association, Inc. is one of the largest, most well known non-profit Repeater Coordinating Copuncils in the United States. SERA territory covers over 1,700 repeaters in member States of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, Kentucky, Georgia and Mississippi. SERA celebrates its 22nd anniversary in 1993 with a continuing goal - to serve the repeater owners and users of the Southeast by providing a voice of communications, information and education with the publication of ***The Repeater Journal,*** and the guidance of our State (Director) Coordinators, officers and volunteers. Your support, comments and reccomendations are appreciated.

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Guests of Holiday Inn in Knoxville

SERA Board Holds Winter Meeting In January

■ Jay Mabey Editor of ARRL Repeater National Directory Special Invited Guest

The SERA Board of Directors held their annual Winter meeting at Knoxville on January 9 and 10. Board members came in numbers, with 6 states having both Director and Vice-Director attending, and the other two states with Directors attending. All officers, and appointees were also present.

Special guest at the meeting was Jay Mabry, KU0X, Editor of the ARRL National Repeater Directory.

Directors & Vice-Directors Installed

Since no Director or Vice Director was opposed in the year-end nominations, all were automatically re-elected. The group was re-instated to their position by SERA President Dave Shiplett, AC4MU at the opening of the Winter meeting which convened Saturday afternoon at 3:00 p.m. Shiplett thanked the group for the fine job they had done over the past year, and expressed hope they would continue to serve in the same dilligent capacity, servicing the needs of the repeater owners of the 8 SERA states.

Treasurer's Report - Dues Increase

Ray Adams, N4BAQ reported to the group that SERA was growing and was continuing to be healthy, however, he emphasized, looking at the increased cost trend of 1992, a dues increase would be almost mandantory to continue growth, and service that we have offered Amateurs in the Southeast.

Adams presented a breakdown of page costs of the Repeater Journal and many other items which had increased in 1992. He said the extra service that SERA is now expected to provide costs money, and we had not had a dues increase since 1987.

"The time has come," Adams told the group, "We need to keep our organization on a sound financial footing so we continue to offer the services that are expected of us."

Much discussion followed and much time was spent by the Board agonizing, but facing the reality that there must be a dues increase.

David Ward, KA4LVO, Computer and Archives manager told the gathering of the costs of providing updated data sheets to all repeater owners in our 8-states, of the most complete computer database information kept on all known repeaters, providing service and information to Director, Vice-Directors to assist in coordination, stacks of forms required for the job, and the large increase in postage bills as a result of this necessary service.

Wayne Williams, K4MOB, Publications Chairman reported that the Repeater Journal was having an excellent year and was actually paying more than its way within the organization since advertising was up considerably.

The Board delayed action on the actual dues increase until Sunday morning, but then, it was decided to follow the recommendation of the Treasurer and raise SERA dues to $8.00 per year for Associate Membership, and $20.00 per year for Full Membership. The dues increase will become effective on April 1.

Data Base Manager Report

David Ward issued his report to the Board, saying that over 1,700 data sheets were mailed out in November, and they were coming back very well. He discussed with the Board the feasibility of moving the dates of mailing out datasheets, or even the possibility of changing the expiration dates of Full Membership, to take come of the tremendous load off at the end of the year with everything falling in at the same time, during Christmas, New Years and business year-end requirements. They agreed to look into this and discuss it later.

By-Law Amendment

An amendment to the SERA By-Laws had been presented to the Board by mail last month, concerning increasing the Executive Committee from 3 to 5 persons. It was felt that the organization would be more answerable to its membership with 4 elected, and one appointee as members of the Executive Committee. After discussion, the amendment was passed. The Executive Committee now consists of the four officers, Dave Shiplett, AC4MU, President, Nita Wofford, N4DON, Vice-President, Barbarra Gregory, WA4RMC, Secretary, and Ray Adams, N4BAQ, Treasurer. Waynbe Williams, K4MOB, Publications Chairman maintained the appointee position on the Committee.

Review Coordination Forms

The Board agreed to update the standard SERA Coordination form, and standardize them for all coordinators. Even though coordinators were using a standardized version of the official SERA coordination form, some were more information gathering than others. The new forms will contain all

Continued on Page 6

IT'S THIS MONTH!

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MARCH 13 & 14, 1993

FLASH!!!

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FOR PRE-REGISTRATION AND SWAPFEST TABLES, CONTACT:

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SERA Winter Board Meet

Continued from Page 3

information needed for the SERA database, as well as proper procedures to follow in getting coordination, including times required, and reporting back to the repeater owner, or the coordinator when coordination is underway.

2-Meter Bandplan

A discussion was held by the Board concerning some frequencies utilized by many other coordinating councils for simplex and digital that SERA does not list. A committee will look further into this and make recommendations at the June Board meeting. The Board was told of many digital operators using voice simplex frequencies in the 147 MHz region, and some use in the 145 MHz region, which by FCC subband recommendations should not be done, especially in the Satellite frequencies. The Board issued no comment at the present on either of the two statements of misuse of the 2M simplex frequencies.

Mabey Speaks To Board

Jay Mabey of the ARRL discussed with the SERA Board the availability of the National Data Base for coordination information to be passed between coordinators and those from other coordination councils. He talked about the National Repeater Directory and the tremendous growth it is seeing. He said organized Digital coordinating groups or frequency coordinators who coordinated digital were the only ones who could insert Digipeaters into the National Directory. With so many being added, he said a separate Digital Directory might have to be considered in the future.

At the end of the meeting, David Ward presented Mabey with a computer disc, containing the SERA repeater information for the 1993-94 ARRL Repeater Directory.

Repeater Journal Report

Wayne Williams, K4MOB, Publications Chairman issued a report to the Board, saying the the Repeater Journal had one of its best years ever in 1992, and 1993 looks even more promising.

He indicated that 21 dealers now sell the Journal in their stores and at Hamfests, increasing circulation over 600 copies.

Williams said the Journal had committed writers to do local news about their state in 6 of our 8 states. He said more people are submitting features and stories to the editor to be published in the Journal each quarter.

He mentioned a drastic increase in Hamfest advertising as many hamfest sponsors are advertising 2 or 3 quarters in the Journal.

"After all," Wayne said, "Where else can you get 5,000 flyers out to people in the Southeast for less than 2-cents a person." "The hamfest committees are discovering the value of the Journal for their advertising, and are seeing a direct result in attendance."

He said that more advertisers forced more pages in the Journal, which is healthy for the reader, and will encourage more people to join SERA to get the Journal as it becomes more of a topic of conversation.

Williams, and David Ward both challenged the Board to do more in getting SERA before the ham public, such as speaking engagements, setting up SERA booths at hamfests, and talking up SERA as they traveled around.

"There are thousands of new hams coming into our hobby, there should be hundreds of new members coming into SERA," Williams told the group, "But they aren't - and its mainly because we are not getting our story out to them."

Adjournment

The SERA Board adjourned shortly after 2:00 p.m. Sunday Afternoon, after being in official session for almost 11 hours over the two day period. They will meet again in June at Knoxville.

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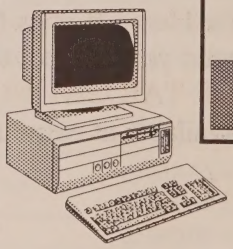

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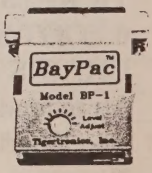

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KD4SMH: Highest Ham In The East

Ginger Sharpe is one of three year-round residents of Mt. Mitchell State Park, North Carolina, where her husband John is Park Superintendent. Ginger was licensed on September 1, 1992, as KD4SMH and has a rather unique perspective of Ham Radio as an aid to living and working in the wilderness. Steve Mosier, W3GRG, inteviewed Ginger on Mt. Mitchell and provided this photo feature.

-by Steve Mosier, W3GRG

Ginger, you say your husband has been a State Park Ranger for 20 years. How long have you been here at Mt. Mitchell?

My husband came here as Superintendent 4 years ago. We dated the first year and then got married, so I've been here for 3 years.

What's it like living at over 6,000 feet?

It's a very different life style from where I used to live -- and a very different life style from what almost everybody lives.

Different in the sense that there are tourists around, or from the altitude?

Mostly from the altitude and the weather, and the isolation from nearby cities. With the tourists

Ham radio must help with the isolation.

Yes, it does. It gives me a lot more security when I travel the Blue Ridge Parkway by myself. The Parkway is often closed in the winter and that security is important if I have problems with my vehicle or run across someone who's had a wreck or other car trouble.

You have to travel the Parkway even if its closed, don't you?

We sure do. And I've gotten stuck before.

What kind of vehicle does it take to travel these roads in the winter?

Well, we go prepared with 4-wheel drive -- both of our personal vehicles are 4-wheel drive as well. Many times when we go off the mountain to buy groceries, or visit my family down in Morganton, it will start snowing up here. I've come back many times in the snow. There's a big difference between up here and down below. We have to be prepared for car trouble and have provisions with us in case we get stranded. And we have to dress for up here but have clothes for down below -- its kind of warm for us down there.

Well, ham radio certainly helps with the security, but how about making new friends and just having more people to talk to?

Ginger Sharpe, KD4SMH, with her daily view of the Blue Ridge Mountains. The young lady is married to a park superintendent of Mt. Mitchell State Park. Ginger recently got her ham license and received the call: KD4SMH. She is very active in public service work in the park with her husband. (Photo by Steve Mosier, W3GRG)

Oh, yes, of course. The summer isn't bad, but winter's what I'm looking forward to. In the winter, visitation to the park is almost nothing at times and so ham radio will provide me with a lot of friends out there.

Tell me how you got into ham radio.

Fred Redmon, N4GGD, and Raymond Gibson, KD4BQV, both encouraged me, especially Fred.

They've been camping up here for several years -- they schedule a week to come up every September and they've talked with me about it for a couple of years. Then Raymond brought me some books right at the first of this year and some code tapes and Fred loaned me one of his little 2-meter radios to listen to, so that's what really did it.

I knew they'd been coming up here for years. How did you ever run into Fred?

Well, as a park wife, I'm not allowed to work in the park for pay, but I do a lot of volunteer work, and one of my volunteer duties is to register the campers, and so that's how I met him.

Well, I guess when Fred and Raymond found out you might be interested in ham radio, they started working on you.

Yes, the reason they tried to encourage me was because of the isolation up here and because we travel a lot. Asheville, Marion, Spruce Pine, and Burnsville are all about 30 to 35 miles away. On a good day it can take 40 to 45 minutes to get to any of those towns and over an hour in fog or snow. So they thought it would be good for me to have a radio and they talked me into it.

Do you use the Mt. Mitchell repeater most of the time?

Yes. I think there's only one other repeater I've ever talked on up here.

Is that repeater right up here on top?

What they call the Mitchell repeater is actually on Klingman's Peak, about 2 miles away. Those are the antennas you can see from the sum-

Continued on Page 10

ON THE FEBRUARY COVER

Steve Mosier, W3GRG, a professional photographer out of Greensboro, NC provided color slides of Ginger KD4SMH atop Mt. Mitchell for our February Cover. Bryant Marshall, prize winning Sales artist of the Winston-Salem Journal Newspapers designed the new cover layout.

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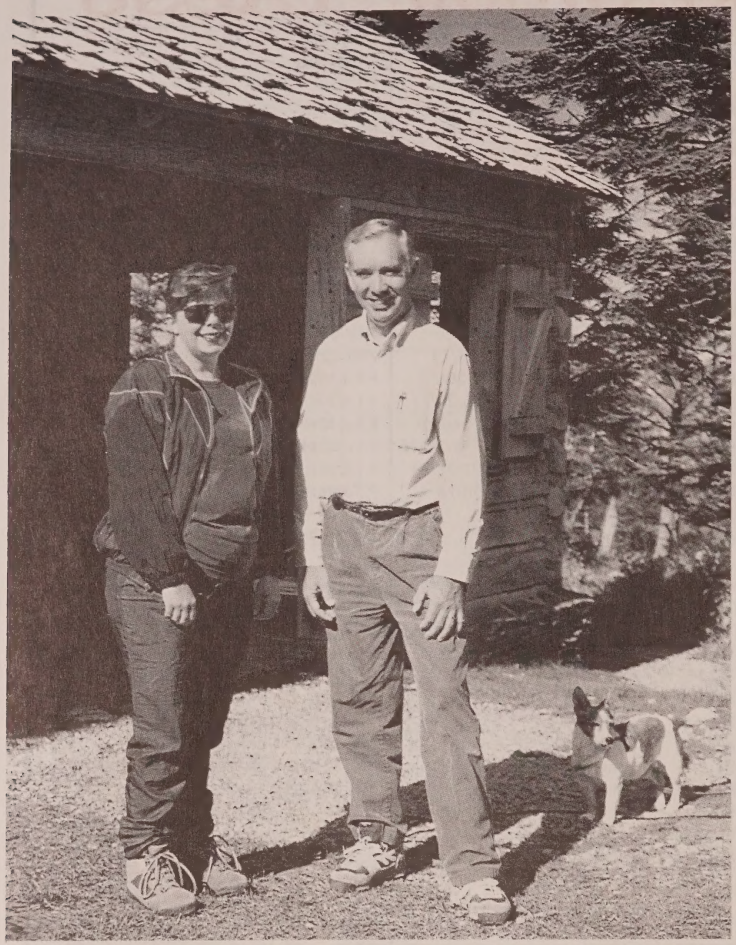

Ginger with Raymond Gibson, KD4BQV, a frequent camper, who gave her books and tapes and encouraged her to get her license. She said her new hobby of Amateur Radio fits well into the emergency and public service she and her husband are involved in especially during the winter months. She now has ham communications as well as park and ranger communications. (Photo by Steve Mosier, W3GRG)

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mit, on the neighboring peak. There are no antennas up here except the Highway Patrol. The Park repeaters are also on Klingman's Peak.

You say Raymond loaned you some code tapes. Did you take the code test?

No, but I'm studying the code now with a computer and the tapes. I'm not even going to do 5 wpm. I'm going to head for 13 wpm. Even before I took the Novice and Tech written exams, I had bought the General book.

So you're looking forward to getting on HF?

I sure am. I should be able to do real well up here.

You're going to have a strong signal when you get on the HF bands. Isn't Mt. Mitchell the highest peak east of the Mississippi? What's the elevation?

6,684 ft.

You don't live on the peak, do you? How far down do you live?

We live at 6,320 ft -- 364 ft. below the summit.

That must make you one of the highest residing hams in the east. How many people live up here?

Yes, there may be another ham who lives above 6,320 year-round, but I don't know who. Three of us live here year-round: me, my husband, and one other ranger.

Have any interesting things happened to you since you became a ham, because of ham radio?

I got my license on a Tuesday morning and that next Sunday there was a ham riding on the Parkway and he spotted a vehicle that had gone over the guardrail and down the bank. He called for somebody to help and I came back to him. I have my ham radio as well as a unit on the Park and the Parkway frequencies, so I contacted the Parkway rangers to assist him.

So you put ham radio to use right away.

Right away!

Is that pretty routine, for you to operate on the Park frequencies?

Its really very necessary. In the wintertime, especially, and even in the summer for that matter, when people have car trouble or other emergencies, they call our house. Our home phone is listed as an emergency number, and we also have a Park phone in the house. So I get a lot of emergency calls and I have to be able to get in touch with a Ranger.

Where is the next closest Ranger who could deal with emergencies outside of Mt. Mitchell State Park? Such as the Blue Ridge Parkway, for example?

Continued on Page 11

Ham Census In SERA Territory 1987-1993

-From W5YI Reports

Overall in the United States, the ham population has increased some 35.5% since 1987, from 431,301 to 584,350 hams.

In the Southeast, the growth has been above the national average. North Carolina has the largest growth with 49%, followed by West Virginia with 48%. Of the SERA states, South Carolina had the least growth of 39%, which was still above the national average. Georgia and Kentucky had 43% growth, Mississippi 44%, Tennessee 42% and Virginia 40%.

The state with the most hams is Virginia, now with 13,973, followed by North Carolina with 13,415. Georgia is next with 11,965, then Tennessee with 11,233. Our smallest ham populated state is Mississippi with 3,842, then West Virginia with 4,619 and Kentucky with 6,798.

The 8-state total is 70,847, compared with 49,444 hams in 1987.

In the United States, the largest ham population remains in California with over 87,700 hams. The smallest two states in ham population remains Deleware with 1,310 and Wyoming with 1,317.

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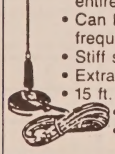

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KD4SMH: Highest Ham In The East

Residence at 6,320 ft. in Mt. Mitchell State Park. Ginger, KD4SMH, and her husband John, park superintendent are two of only three people who live on the highest mountain on the East coast. Ginger is very happy about her new Ham Radio hobby. (Photo by Steve Mosier, W3GRG)

Continued from Page 10

Well, we're not part of the Blue Ridge Parkway -- that's Federal -- but they work with us and we work with them. And they could easily be 50 miles away from a wreck.

So in the winter, there are only 3 of you here and that's it?

That's all who live here, but there are also 2 maintenance mechanics who work in the winter. One lives in Spruce Pine and the other in Burnsville, and they travel back and forth each day. Sometimes, they have problems on the road, too.

Do you have only a handheld, or do you have a 2-m base station also?

Right now, I only have a handheld, but I'll probably get a base station eventually.

Up here, I guess a handheld is just as good as a base station.

Well, I had to decide what would be most useful for my first radio. The handheld is ideal because I can use it in the car and also on the trail if I have to help find a lost or injured hiker.

Does ham radio have any advantage over the Park radio?

Well, I can tune my radio to a lot of frequencies, and listen, including those used by other agencies. The new Park radios we got last summer have multiple frequencies, but they won't tune to, for example, the Civil Air Patrol. We had a plane crash up here last April and there were a lot of different agencies working to help find the airplane, and with Fred's radio that I was borrowing at the time, I could tune in and listen to what those other agencies were doing, and the Park couldn't do that. So I could let the Park know where the others were, and when they spotted the plane from the air, I could let them know that, too.

So you probably know more about what's going on over a wide area than the Park Rangers know with their radios.

Well, they know all they need to know with regard to the Park and the Parkway, and the county agencies, but my radio is a lot more flexible, and my husband is a little bit jealous of that. My radio will do a lot more than his will.

Long License Turnaround

From the time your VEC sends your 610 form to the FCC and the date you get your license is taking over 10 weeks as of mid January.

We have record of KD4VRE receiving his call on January 19. He took the test 72 days back.

Historically the FCC varies in times it takes to process new Amateur licenses. Even back in the '50s and '60s turnaround time varied from 2 weeks to 16 weeks.

Patience is the bast answer. Calling your VEC won't help.

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Mail Check, S.A.S.E., and this completed form to:

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NAME: _____ CALL: _____

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CITY: _____ STATE: _____ ZIP: _____

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Reserve _____ Electricity Hookup @ $15.00 ..... $ _____

Make checks payable to R.V.A.R.C. **TOTAL $** _____

The Repeater Journal Annual Eight State Repeater Census

-by Wayne C. Williams, K4MOB

I've been doing this quite a few years! In fact, last year, we researched back and get repeater counts simular to the charts on this page dating back to 1975. So now we have repeater counts by each band from 1975 thru 1992. Makes for interesting comparisons, if you like that sort of thing.

To our 1993 census. Seems quite a bit of growth of repeaters in our eight states during 1992. We increased by 114 repeaters on all bands since our last census last January. By our count we now boast of 1,715 repeaters in the eight SERA states.

The biggest growth band was not a surprise. It has been that way for the past five years. The 70 cm band jumped by 94 repeaters, making the 450 MHz band account for 80% of the growth of all VHF/UHF repeaters in the SouthEast. No other bands made any significant jumps in repeater numbers during the year. It is obvious why there is small growth on 2-Meters. There is no spectrum left to put a repeater on 2-Meters in most areas, especially in heavy populated areas.

The jump in 70 cm repeaters probably is caused by a tremendous demand for the dual-band transceiver and handy talkies which sold in record numbers in 1992.

There is some interest picking up in the 920 MHz and 1.2 GHz band. We have 6 and 10 of those repeaters respectively on-the-air.

Looking at it at a statewide angle, the largest growth of any state was North Carolina which increased by 45 repeaters in 1992. Of those, 25 were new 450 MHz machines or over 50%.

Second in growth was Virginia with 17 new machines last year. Growth was spread out over most all bands.

Tennessee followed with 16 new repeaters last year, with 14 of them on the 450 MHz band.

We might mention, the words "new repeaters" may be the wrong words to use. Actually as numbers change, this represents the overall total for any one band or state since our last census. This means lots of machines could have gone off the air, and replaced by others, in addition to new machines coming on the air, which adds to numbers. So if we say there is 25 new machines on in an area, there might have been 10 or 15 which went off the air, they were replaced, plus other new ones came on to represent the overall total.

Tennessee remains our largest state as far as repeater numbers are concerned. They have 351 machines on all bands. Second is Georgia with 322, followed by North Carolina with 312.

The biggest 220 MHz State is North Carolina with 47 repeaters. The biggest 440 MHz state is Tennessee with 108 repeaters. The biggest 146 Mhz state is also Tennessee with 183 machines. North Carolina also has the most 50 MHz repeaters with 14.

In the "high bands" Tennessee leads the 1.2 GHz band with 4 followed by Georgia, North Carolina and Virginia, with 2 each. On the 920 MHz band, Virginia has 3 and Tennessee has 2.

Our smallest state with overall repeaters is West Virginia with 104 machines, the same number they had at the beginning of last year.

The most repeaters are on 2-Meters, obviously, with 971. Our second largest band, which continues to gain is 70 cm with 471 machines. In 1990 there were 603 more 2-meter machines than 450 machines. In 1993, the difference has shrunk to only 500.

At the growth rate we saw in 1992, SERA territory could surpass 2,000 repeaters when we count again in 1994.

Guilford Amateur Society Takes over Journal Mailing

The Guilford Amateur Society (GAS) of Greensboro, N.C. started their new job this issue. They picked up the Repeater Journal from the printer, affixed labels, bagged them, and delivered to the post office.

The club volunteered for the job as a club project last month. Over the past years, Computer Chairman David Ward, KA4LVO and members of his family, and most recently, members of the Forsyth County ARS saw that the Repeater Journal got in the mail.

Journal Editor, Wayne Williams, K4MOB, said that he had been looking for someone who could do the entire job on a permanent basis for over 2 years. It was finally a discussion he had with Bob Clark, WD4ACR one night in November that things started looking up. Bob presented it to the club, and they unanimously voted to take on the job.

The Journal staff is grateful that members of GAS have decided to lend us a permanent hand in this large project. We have asked Steve Mosier, W3GRG to take his camera over, and get some pictures of the first endeavor. We should have a nice story with pictures in the May Journal.

It is amazing how hams still help when they are needed. The load now is taken off David and his family. We're glad, and we know they are glad.

Thank you - GAS members!

SOUTHEASTERN REPEATER ASSOCIATION, INC. - REPEATER GROWTH BY-BAND, BY-STATE OF EACH CALENDAR YEAR

DIST	10-METER BAND BY YEAR 84	85	86	87	88	89	90	91	92	93
NC	0	2	3	2	2	2	3	2	2	6
SC	0	0	0	0	0	1	1	1	1	1
TN	2	1	2	2	6	6	5	7	6	6
VA	1	3	2	2	5	5	4	3	3	3
WV	0	0	0	0	0	0	1	1	3	2
KY	0	0	0	0	0	0	0	0	0	0
GA	0	0	2	4	4	4	4	3	3	3
MS	0	0	0	0	0	3	1	1	1	1
TTLS	3	6	9	10	17	21	20	16	20	22

DIST	6-METER BAND BY YEAR 84	85	86	87	88	89	90	91	92	93
NC	9	9	9	10	6	7	4	5	8	14
SC	3	2	3	3	2	1	1	1	1	1
TN	6	6	7	10	10	13	12	11	14	13
VA	15	14	12	13	13	12	10	10	7	9
WV	0	1	6	6	5	3	2	2	2	2
KY	0	0	3	1	2	3	3	2	3	3
GA	0	0	2	4	3	3	6	7	8	10
MS	0	0	0	0	0	2	2	2	0	1
TTLS	33	32	40	46	43	47	41	40	43	53

DIST	2-METER BAND BY YEAR 84	85	86	87	88	89	90	91	92	93
NC	133	143	144	140	141	146	146	151	152	156
SC	60	62	63	65	64	64	66	68	75	78
TN	137	139	133	138	139	159	162	167	176	183
VA	104	111	108	111	118	116	95	101	107	113
WV	57	64	71	71	71	76	75	78	77	77
KY	0	0	22	25	32	89	95	90	103	119
GA	0	0	142	138	142	155	156	153	163	165
MS	0	0	0	0	0	63	67	63	84	89
TTLS	491	519	683	688	707	878	862	871	937	971

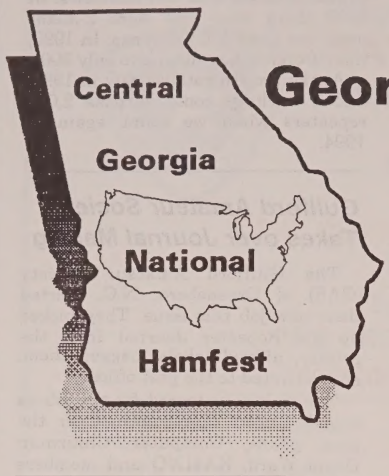
OTHER REPEATERS: 6 - 920 MHz., 10 - 1.2 GHZ and 12 Beacons.

1984 thru Feb. 1993 census.

DIST	220 MHz. BAND BY YEAR 84	85	86	87	88	89	90	91	92	93
NC	24	25	28	27	30	34	36	37	41	47
SC	4	8	5	5	6	7	10	10	18	17
TN	14	14	14	16	21	29	33	32	38	41
VA	7	10	10	10	17	22	17	18	19	21
WV	2	2	2	3	4	3	4	5	5	4
KY	0	0	2	4	4	6	6	9	12	14
GA	0	0	12	16	23	28	33	39	43	46
MS	0	0	0	0	0	5	5	8	9	8
TTLS	51	59	73	81	105	134	144	158	185	198

DIST	440 MHz. BAND BY YEAR 84	85	86	87	88	89	90	91	92	93
NC	14	25	36	32	33	31	39	43	64	89
SC	5	9	12	9	11	11	14	17	18	20
TN	29	31	35	43	42	64	70	76	94	108
VA	25	37	36	36	40	48	32	51	54	65
WV	3	3	5	10	11	10	14	15	17	19
KY	0	0	1	1	1	15	16	27	41	43
GA	0	0	25	35	44	53	61	72	89	98
MS	0	0	0	0	0	11	13	22	0	29
TTLS	76	105	150	166	182	243	259	323	377	471

DIST	REPEATER TOTALS - ALL BANDS PER STATE PER YEAR 84	85	86	87	88	89	90	91	92	93
NC	180	204	220	211	212	220	228	238	267	312
SC	72	81	83	82	83	84	92	97	113	117
TN	188	191	191	209	218	271	283	291	335	351
VA	152	175	168	172	193	203	158	183	194	211
WV	62	70	84	90	91	92	96	101	104	104
KY	0	0	25	31	39	123	120	128	159	170
GA	0	0	184	196	218	246	261	274	310	322
MS	0	0	0	0	0	84	88	96	119	128
TTLS	654	721	955	991	1054	1323	1326	1408	1601	1715



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Once Again! North Carolina Leads The Way

Full Membership Renewals Coming In Strong

■ 5 States Post Startup Renewal Increases, 3 Slightly behind last years startup.

-by Wayne C. Williams, K4MOB
Editor, The Repeater Journal

In case you haven't thought about the work involved in getting in over 1,200 data sheets, marking changes in the computer, and then re-registering 785 repeater Full Members, all within a couple of weeks, you just don't realize how David Ward, SERA Database chairman lives with his computer in December and early January.

Once again, the repeater owners in our 8 SERA States made David burn a little more midnight oil. He processed Full Membership renewals totaling 785 repeaters. This is 11 members shy of the record pace set last year, but we had to shut off the final totals on the 18th this year, due to the size of the Journal, compared with the 28th last year. Chances are, more will come in that don't get logged in this story, but will appear in the repeater index, if they make his deadline.

North Carolina once again led the way of all states in total numbers of Full Member renewals, and largest percentage of overall membership. They had 184 repeater renewals for 58.6% of the States 314 total repeaters. Placing second in numbers was Tennessee with 153 renewals, an increase of 10 over the same period last year. Tennessee has 41.6% of its 357 repeaters as members. Incidentally, Tennessee is SERAs largest state repeaters in number.

Placing a strong 3rd was Georgia with 133 renewals, and Virginia was 4th with 121 renewals. Georgia has 40.8% of their 325 machines renewed and Virginia has 41.6% of its 216 machines as SERA members.

Overall startup renewals for 1993 in SERA totals 785 repeaters or 45.4% of the 8-state total of 1,731 repeaters.

NC, SC, VA, TN, MS all had increases in startup renewals for 1993 over the same period of 1992. WV and GA had drastic decreases and KY had a modest decrease. If these three states jump back up and keep up with 1992, we will be looking great overall by our May Journal report.

One very positive showing came out of Mississippi, our newest state. They already have renewals this year, within 2 repeaters of the entire 1992 membership total. Lets hope this will be the year of tremendous growth in that State.

We commend the repeater owners in our 8-states for promptly getting in their renewal forms returned in record numbers. We also welcome the many new members, just joining SERA for the first time, we are very pleased to have you a part of the organization.

As usual, we will have large numbers of repeater owners who will renew after this issue of the Journal hits the mailboxes, and they discover that big "D" for Delinquent, or "N" for non-member beside their listing in the repeater index.

We could very well hit the magic 1,000 repeater member mark this year. We missed it by slightly over 200 last year, but this is the year we will do it if repeater owners consider the advantage of joining SERA, and giving back some of that which he been given them over the years.

Full membership for repeaters is NOT required in SERA for assistance, coordination or any other service of SERA. Those who join are doing it voluntarily, without any pressure, and that is what makes us respect and feel so very proud of all the repeater owners in the Southeast. They recognize the value of their local coordinator, and know that their support through membership is what makes things work right.

It's no wonder that the nation looks to the Southeast with envy. Good machines, little interference, and friendliness by repeater owners who want to provide the service expected by their repeater users.

SERA - SouthEastern Repeater Assn. Full Membership

By State - By Year - From 1984 to Present

SERA DIST	TTL '84	TTL '85	TTL '86	TTL '87	TTL '88	TTL '89	TTL '90	TTL '91	TTL '92	CURR '93	1993 Mbr%	STATE RPTRS
NC	83	149	147	123	145	181	157	189	220	184	58.6%	314
SC	35	56	43	44	46	59	50	53	60	59	50.4%	117
VA(1)	58	92	88	98	99	151	122	127	136	121	56.0%	216
WV	21	41	40	51	39	51	54	67	70	43	41.4%	104
TN	58	85	63	80	80	111	128	155	179	153	42.9%	357
GA(2)	18	109	125	110	100	104	124	142	173	133	40.9%	325
KY(3)	4	18	21	19	15	48	53	66	70	55	32.3%	170
MS(4)	--	--	--	--	3	12	36	38	36	36	28.2%	128
TTLS	279	550	527	525	527	717	724	837	944	785	45.4%	1731

(1) Total Virginia list does not include 86 repeaters in T-MARC Territory, (N of Highway 33 and Latitude 38-degrees North, and In the West Virginia Panhandle area.
(2) Georgia assumed SERA District Status in mid 1985.
(3) EKY assumed SERA District in 1985, W. Ky in late 1989. District renamed Kentucky District.
(4) Mississippi assumed SERA District status in late 1989. *Updated as of 1-17-93*

Foundation of Amateur Radio Offers Scholarships

■ 47 Scholarships for 1993-94 to assist Amateur Students

The Founmdation For Amateur Radio, Inc., a non-profit organization with headquarters in Washington, D.C., plans to administer forty-seven (47) scholarships for the academic year 1993-1994 to assist licensed Radio Amateurs. The Foundation composed of fifty local Amateur Radio Clubs, fully funds five of these scholarships with the income from grants and its annual Hamfest. The remaining 42 are administered by the Foundation without cost to the various donors.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from $500 to 2,000 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs are encouraged to announce these opportunities at their meetings, on their nets, during training classes, and in their club newsletters.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to April 30, 1993 from:

Far Scholarships
6903 Rhode Island Avenue
College Park, MD 20740

From W5YI Report

The 1992 Year In Review

■ W5YI Offers their 1992 Amateur Year In Review - Major ham radio stories that occurred last year.

(Compiled & Edited for Brevity)

Ham Radio Grows!

The biggest story of 1992 is the continued success of the Code-Free Technician class ham ticket. The number of Technician Class Amateurs continues to surge! Today, one-third of all Amateur radio operators are Technicians. Just two years ago Technicians accounted for one in every four ham operators; five years ago it was one in five. There are now twice as many Technicians as Novices. Just 10 years ago there were more Novices.

The first No-Code Tech license was issued on March 1991. As of November 1, 1992, there are 188,749 Technicians. While the total number of licensees has increased by a third over the last five years, the Technician class has more than doubled.

More than 42,000 people became Amateur radio operators during 1991 - a whopping increase of more than 50% over 1990. About 48,000 will join the hobby for the first time in 1992.

The total amateur census stood at 500,000 in January 1991 and increased to 543,000 by year end - a gain of 8.6%. By November 1992, the number of ham operators stood at more than 582,000, or 7% more than December of 1991.

Licensing & Call Sign Changes Coming

The FCC hinted at the Annual VEC Conference in June of last year of some possible changes in the Commission's licensing and call sign assignment systems.

PRB Chief Ralph Haller said that he was looking into a program called "auto grant" which would allow a 24-hour licensing turnaround through electronic filing of Amateur applications.

The FCC goal is paperless communications with the licensing facility in Gettysburg.

Haller said a new computer system would be coming on-line and that software was being written that will permit the FCC to accomodate requests for special amateur call signs within the next three years "...although the target date is less."

Andrew Fishel, FCC Managing Director, confirmed that the commission is in the middle of an Information Systems Modernization Program and is studying Electronic Data Interchange (EDI) A "redevelopment amateur licensing system" scheduled for implementation in the first quarter of 1994 will accomodate both paper and electronic filings from the VECs.

Folding Novices Into the VEC System

Last Summer, the FCC proposed to discontinue the separate Novice license testing program and bring it under the VEC System which examines all other classes. The system has some 30,000 trained and accredited volunteer examiners (VEs) closely coordinated by 18 VE coordinators. Each examination for the Novice Class operator license is administered more informally by two amateur operators selected by the examinee.

The NPRM was a result of separate petitions submitted last February by the ARRL and W5YI-VEC. Actually the FCC had already been working on exactly such a proposal since the fall of 1991. FCC records show the VEC System is superior. with an error rate of less than 1%, on 610 forms compared to 10% in the Novice testing program. Communications with the FCC in the VEC program is also far superior.

The FCC proposed to include the responsibility for the preparation and administration of Novice Class license examinations under the VEC System with the same conditions that apply to the four higher classes license.

Action on this matter is due sometimes this quarter.

Changes to Business Rule

In a 14-page letter, the ARRL wrote last January that modifications be made to Section 97.113 of the Rules to allow amateurs to more fully participate in public service activities. The League suggested expanding some business-related amateur radio operations and permitting communications which might be provided through other radio services as long

Continued on Page 17

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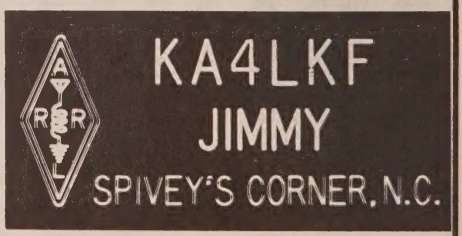

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1992 Year In Review

Continued from Page 16

as it was not conducted on a regular basis.

The Commission treated the letter as a petition for rule making. In June the FCC released a long awaited Notice of Proposed Rule Making looking toward relaxing restrictions on business communications in the Amateur Service. The Commision used the ARRL's proposal as the basis for their NPRM.

Among other things, the proposal, if adopted, would allow paid teachers to use amateur radio in the class room, permit amateurs to provide infrequent voluntary public service communications (even when there is a financial benefit to those assisted) . . . and to use amateur radio frequencies for personal business communications such as ordering food or making reservations.

The new rules might even go as far as to allow ham operators to participate in any type of communications as long as the amateurs involved do not sell the service to sponsors and benefactors. Compensation to operators would be allowed only in the case of More code practice, information bulletins and class room instruction.

Public comments suggested that the matter is very complicated and many issues were raised. The FCC is now digesting everyone's views. It is anticipated that the amended "no business" amateur radio communications regulations will be released sometimes around mid-year.

1992 WARC

Respresentatives from 164 nations met in Spain last February to consider high frequency broadcasting and new space radio services such as high definition television, low Earth orbiting satellites, satellite sound broadcasting and new mobile satellite services.

Amateur radio matters were not on the agenda, but our frequencies could have been affected since spectrum had to be found to accomodate the new services. Particularly at risk were our Amateur Satellite Service frequencies.

Fortunately WARC-92 had little impact on amateur spectrum. One of the major results, however was the adoption of a resulution stating that it was desirable for Amateur and International Broadcasting Services to have exclusive (rather than shared) allocations at 40 meters. Future WARC should consider realigning the 7-MHz Amateur service allocations.

Ham Radio Flies on 2 Shuttle Missions

A total of 6 astronaut ham operators orbited during Space shuttle missions STS-45 and STS-47. All opeated amateur radio extensively during their flights both individually - and in conjunction with schools. Each of the missions also had a foreign amateur on board.

Three SAREX missions are scheduled for 1993 beginning with STS-55 in February, STS-56 follows in March and STS-57 in late April.

New Privileges Proposed for Novices

(See full details in separate story this issue of the Repeater Journal).

In response to three peititions, the FCC issued a NPRM in December which proposes creation a small new subband at 222.00 to 222.15 MHz where repeaters are probibited, authorized frequency privileges to Novices in the entire 222-225 MHz band and allows Novice Class operators to be licensees and control operators of repeaters in the 222-225 MHz and 1270-1295 MHz segment of the 1240-1300 MHz band.

New Novice & Tech Pools Released

The VECs Question Pool Committee (QPC) completed work on newly revised Element 2 and 3(A) Questions Pools and placed them in public domain on December 1. These two elements make up the sole requirment for the Codeless Technician examination. Every question has been revised in some way or other.

The new questions will begin showing up in examinations after June 30th of this year. The new pools have approximately 10% less questions

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Issues Notice of Proposed Rule Making

FCC Proposes Rule Changes For 220

-Compiled From W5YI Report

The FCC, in response to three petitions involving unrelated changes to the Amateur rules on the 220 MHz band has issued a Notice of Proposed Rule Making.

■ Briefly Noted . . .

(1) creates a small new subband where repeaters are prohibited

(2) authorized frequency privileges to the Novice Class operators in the entire band.

(3) allows Novice Class operators to be licensees and control operators in the 220 MHz, as well as the 1270-1295 segment of the 1.2 GHz band.

■ Weak Signal Subband

The ARRL has requested a new subband be designated at 222.000 to 222.15 MHz where repeaters would be prohibited, but where all other types of station operation could continue. The League has campaigned for several months, saying a small segment is needed where experimentation can take place, but where frequencies need not be shared with repeaters.

While many amateurs believe that this matter should be decided by the local frequency coordinator, the ARRL argues that protection of other types of operation from interference cannot be assured other than by regulation.

(Editor's Note:) When SERA set up the new 220 MHz. bandplan years ago, the lower segment was already protected for weak signal and experimental. See separate story this issue.

■ More Novice Privileges

In another rulemaking request, the ARRL has proposed that Novices accorded frequency privileges to encompass the entire 222-225 MHz. band.

The League believes that Novice Class operators would benefit from such expansion because they would be exposed to routine types of Amateur station operation other than repeater operation. (As of November 1, there were 98,713 licensees holding the Novice Class operator license.)

■ Novice Repeater/Control

Dr. Michael C. Trahos, KB4PGC of Falls Church, Va. requested in a proposal to the FCC that the Novice Class operators be authorized to be licensees and control operators of repeaters in the 220 MHz band and the 1270-1295 sub band of the 1.2 GHz band.

Trahos argues that the Amateur service shoud follow the General Mobile Radio Service (GMRS) and the Private Land Mobile Radio Services (PLMRS) where licensees are authorized to be licensees of repeaters without even being required to pass an examination in proper repeater operation.

Section 97.503 requires each examinee possess the operation and technical qualifications necessary to perform properly the duties associated with privileges of the class of license sought.

He said the privileges be conditioned upon the use of "commercial equipment" and low transmitter power limits.

The FCC said the "commercial equipment provision is not feasible because amateur VHF and UHF repeater transmitters are not subject to the Commission's type acceptance program."

Continued on Page 19

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Proposed FCC Rule For 220 Sub Band Not A Problem Here

■ SERA Already In Compliance

The FCC has issued a NPRM dealing with the establishment of a weak signal, repeater-free subband at the bottom of the 220 MHz. band from 222.00 to 222.15 MHz.

If the rules proposal is adopted by the Commission, this will not cause any problems in SERA territory. A few years ago when we knew we were losing the lower 2 MHz of the 220 band, SERA studied long and hard as to how to redesign the band into a 3 MHz band and came up with what is presently used today.

Fortunately SERA left the lower end of the band open and kept repeaters in the upper portion. As a result, the lower portion - 222.00 to 222.15 MHz. the FCC proposes to protect is already protected under our present bandplan.

The SERA Board will certainly address this issue at their next meeting, but, other than some wording changes, the bandplan can probably stay as it is, to conform with the Commissions proposal, which probably will pass and be implemented.

■ Present Lower 220 Bandplan

222.00 to 222.05 - EME

222.05 to 222.06 - Propagation Beacons

222.06 to 222.10 - Weak Signal and Experimental.

222.10 to 222.20 - SSB

The only possible problem could be the lower end of the SSB portion from 222.10 to 222.15. Weak signal SSB might be inserted here to comply with the Commission, and 222.15 to 222.20 remain to be utilized as unlimited legal power SSB.

As mentioned the SERA Board will take a look and see that no mode will be shortchanged, yet comply with FCC rules.

The original SERA Bandplan (adopted almost a year before it had to take effect), was distributed nationwide, and became a blueprint for many coordination councils. Those that followed our lead, will be equally as well off as our eight SERA states if the new rules do become law. (Ed)

FCC Proposes Rule Changes

Continued From Page 18

The low power limits requested by Trahos, as these already required by Section 97.313(d) . . . "which limits Novice operators to 25W PEP on the VHF 1.25 meter band."

■ NPRM Adopted by FCC

The Commission said it believed there was merit in these petitions and asked for comments on the proposed rules changes. "They offer improvements in the operational standards of the Amateur service. The availability of a small protected subband at 222.00-222.15 would facilitate experimentation. Permitting Novice Class operators to be licensees and control operators of repeaters and authorizing them additional frequency privileges would provide an opportunity for Novice Class operators to become proficient in a wide variety of Amateur service operations. They would also have more flexibility in selecting the mode of transmission.

■ Comment Period

Interested parties may file comments on or before February 23, and reply comments on or before March 23.

To file informally, you must file an original and four copies of all comments and reply comments. If you want each Commissioner to receive a personal copy of your comments, you must file an original plus nine copies.

You should send comments and reply comments to: Office of the Secretary, Federal Communications Commission, Washington, DC 20554.

Ham Radio Popularity Reaching All-Time High

According to a national news release, the ARRL said that Ham radio is one of America's fastest-growing hobbies. Since 1990, the number of Amateur Radio operators in the U.S. increased from 493,000 to more than 580,000 individuals. Steve Mansfield, public information manager for the ARRL, attributes the growth to heightened awareness of ham radio and the new code-free Technician Class license requirements that the FCC introduced in February, 1991.

"Many people who wanted Amateur Radio licenses had been intimidated by the prospect of learning Morse Code, which was required for the previous tests," Mansfield says. "Now all it takes for a person to get on the air is passing a 55-question examination. The test covers ham radio operating rules and privileges, safety procedures and some basic information about radio communications."

Although the vast majority of new hams are code-free Technicians, Mansfield says that an unexpectedly large number of those people are learning Morse Code in order to progress to higher license classes.

Ham radio is attracing people of all ages and economic levels. New licensees include senior citizens, teenagers and computer enthusiasts. "There are no age barriers to this activity," Mansfield adds. "Amateur Radio has something to offer just about anyone."

Mansfield expects Amateur Radio to remain in the national spotlight in 1993.

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1992 Jamboree On The Air - Greensboro, NC

The Fun Just Keeps On Going!

Photos & Story Special To The Repeater Journal by Steve Mosier, W3GRG

What a great Jamboree-on-the-Air! WB4WOR talked to GOD! VE3GOD, that is. Operating on 14.286, we made contact with Bob VE3GOD in Toronto. The scouts got a real charge out of that contact. We also worked the Royal Canadian Air Force commemorative station in Nova Scotia. VE1RCAF was the first 2x4 call that many of us had ever heard. We had to ask the operator to repeat it several times before we could believe what we were hearing.

The Boy Scouts of America national headquarters call, which is loaned out to many call areas for such events, was worked with ease into the state of Michigan, in the form of K2BSA/8. We also worked the National Scout Museum in Murray, KY: WB4NTB. We worked more stations during JOTA this year than ever before, even though we didn't work as much DX.

Anthony Laskis of Troop 100 in Thomasville concentrates on a QSO under the watchful eye of his Scoutmaster, Rich Pohlman, KC4PTH during the 1992 JOTA exercise for Scouts.

The scouts still got a big kick out of hearing VE6SCT, YV5ARS, and CT5EAA, even if they weren't *that* far away. But as always with Jamboree-on-the-Air, it wasn't the exotic DX that made the event a success, but rather the faces of young kids as they held a mike and drained off some of the electricity of ham radio.

JOTA is a worldwide event held on the 3rd weekend of October each year, aimed at bringing scouts together via ham radio. Greensboro's *76 GROUP* has been running JOTA at the Brown's Summit Boy Scout camp for 3 years now, and our four stations this year were the usual big hit.

Operating from Friday evening through Sunday morning, we frequently had 6 to 10 scouts crowding around a microphone to talk to other scouts and hams in the U.S. and Canada, and we gave a special card to everybody who participated in a QSO as a souvenir of the event. Most of the participants were scouts, and most of them were out camping with us for the weekend.

We also had a lot of young brothers, sisters, and parents, too, and they were obviously turned on by ham radio. That's what makes JOTA a double whammy! Not only do we give the scouts an effective world friendship program, but we often see some familiar faces from the weekend at our next novice/technician course that we conduct twice a year in Greensboro.

This year's JOTA setup included an ICOM 735 running AMTOR into a G5RV; a Ten-Tec OMNI VI feeding a 4-element tribander; a Yaesu FT-890 feeding an 80-m full wave loop; and something small running 2-m packet into a 3-element beam on top of a camera tripod that I never quite got a good look at.

If I mentioned the food we ate, our cooks would have to feed a hundred next year, so I'd better skip that. Making it all happen were Roy, N4BYU; Burt, KD4BQD; Mike, KC4ELH; David, KD4EQW; Bill, KB1G; Fred, N4GGD; Joe, WB2HOL; Mike, WA6KWW; Bill, AC4WH; Charles, WB4WOR (who loaned his call); Barry, KC4YSI; Fred, WA4YUX; Mike, WA4ZYF; and yours truly, who had the most fun of all.

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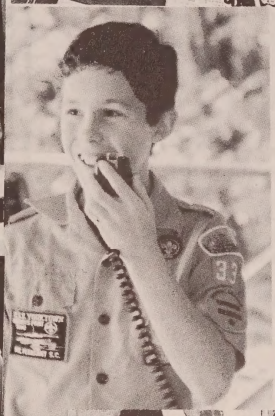

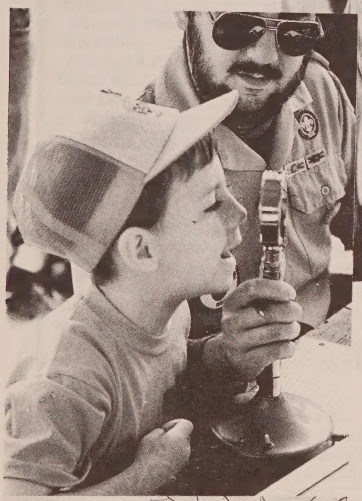

Bottom Picture shows members of the Greensboro North Carolina *76 Group* at the 1992 JOTA exercise. Standing: KD4IUN, AC4WH, WA4YUX, WA6KWW, N4GGD, & WA4ZYF. Sitting: KD4ELH, WB4HOL, KB1G N4BYU, KC4ELH & W3GRG. Kneeling is KD4TMD. Photos of some of the Scouts participating - Clockwise from bottom: Tiger Cub Steven Off of McLeansville and Rich Pohlman, KC4PTH.; Anthony Laskie of Thomasville; Fred Redmon, N4GGD helps youngster overcome mike fright.; Robert Swing of Pleasant Garden; Fred Redmon, N4GGD and Mike Hassell, KC4ELH help youngsters with the microphone as they chat with other scouts on Amateur radios.

Fun With Amateur Radio At Scout JOTA

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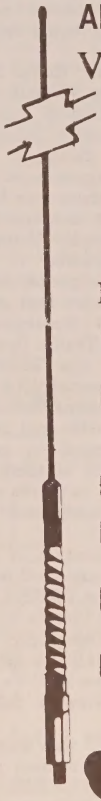

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Explaining The WV DAREN System

The Digital Dimension

(We've recently tried to explain the DAREN system under development in West Virginia. An article from the East River ARC "Current" written by Mark Williams, KJ4QQ. does a great job. Wiith Mark's permission and slight update changes, here is his story -- Ted Wolfe - WD4KHL)

-By Mark Williams, KJ4QQ
(Fall, 1992, ERARC "Current")

In the past few months we have discussed packet radio basics and a few things associated with packet such as bulletin boards and HF gateways. I hope that many of you are trying out packet and enjoying this unique mode of communication. But this issue, let's turn our attention to a state-wide emergency packet radio system that is presently being established in West Virginia.

The Digital Amateur Radio Network (DAREN) of West Virginia was established by Wood County RACES officials after packet radio failed to operate satisfactorily during a disaster drill. Due to congestion on the frequency being used there was little success handling packet messages between Wood and Pleasants Counties during the drill. Thereafter it was decided that a dedicated packet emergency network was needed that could be used to handle Emergency, priority, and National Traffic System messages throughout the state of West Virginia and especially to the state Emergency Operations Center in Charleston. The ultimate goal is to have a DAREN terminal in every county in the state (55 of them) to provide maximum and complete support to all State, County and city governments.

After careful consideration of possible frequencies and equipment needs for the network, the first DAREN was placed on-line in Wood County in Oct 1990. The DAREN operating frequency is 145.690 Mhz. The system operates with Kantronics KPC-2's and KPC-3's (preferably Version 5.0 or higher).

The Kantronics TNC was selected because it can be programmed as a NODE, a regular DIGIPEATER, and a PBBS all in one package. This allows hams in each county to have a bulletin board to pick up and leave local NTS/ARES/RACES messages. Furthermore the NODE will allow access to other DAREN PBBS's several counties away when NTS traffic needs to be passed elsewhere within the state. During statewide or regional emergencies DAREN can also provide individual counties a reliable path to the state EOC in Charleston. Of course, the county DAREN remains available for smaller, local emergencies and public service events as well.

So to provide easy identifications, through a uniform system of paths and routes, the NODES, DIGIS and PBBS's have been given an alias easily identifiable as to the county or cities they serve.

The alias for each NODE and DIGI have been assigned the first four letters of the county they are in, followed by a two letter abbreviation of the state (i.e., WOODWV - Wood County). The alias for each PBBS has been assigned a four letter abbreviation for the city it is in or located near, followed by a two letter abbreviation for the state (i.e., PKBGWV - Parkersburg, WV). Each EOC PBBS should use a four letter abbreviation for the name of the city, county, or agency they are providing communications for, followed by a two letter abbreviation of the type of service (i.e., WOODES - Wood County Emergency Services).

MERCWV, a DAREN node for Mercer County, WV, has been funded by a grant from the Federal Emergency Management Agency. A number of other NODE, DIGI and PBBS STATIONS ARE ALREADY operational in a number of counties and more are planned.

DAREN is looking into the possibility of expanding into adjoining states. The Virginia Section EC is reviewing the DAREN plan for possible implementation in the Va. Commonwealth.

Hams interested in more information are encouraged to write or call for a complete DAREN information booklet which describes the system in full detail. You may contact Wood County Emergency Services Communications Officer Ken Harris, WA8LLM, at (304) 679-3470, or Wood County RACES officer Duane Jones, N8LDM, at (304) 422-5181. Or write to either at: Wood County RACES, 1810 Staunton Avenue, Parkersburg, WV 26101.

One more item I feel is important to the success of DAREN: Please do not try to operate full service bulletin boards, DX packet clusters, or TheNet/Netrom/ROSE packet nodes that generate high volumes of packet traffic on 145.690 Mhz. A clear, frequency is critical to passing traffic in a timely fashion during emergencies.

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SOUTH CAROLINA NEWS

-by Gary, WD8OXE & Donna, KB4TUY Foster
Send news and correspondance to: 670 Foster Road, Inman, SC 29349

We hope everyone had a nice Christmas as well as a good New Year. We have had several requests for information to be printed on the South Carolina Packet Network our efforts to obtain accurate information on this subject have failed. We have made numerous inquiries on the Packet Network and by mail, so if anyone has this information please forward it to me. Our new Packet address is WD8OXE@N4HWU. We would like to thank everyone who has sent us information for this publication.

* * * * *

Lexington County hams are organizing with the Lexington County Emergency Preparedness Agency to provide communications support in the event of an emergency. The local coordinator is AB4MG (Rick). The group plans to participate in various excersises including the V.C. Summer Nuclear Plant Drill.

* * * * *

N4EOY (AL) has added another link to his fine system. 443.150 provides coverage for Newberry and upper Lake Murray. It is linked to 147.360, 224.900 and 443.00(156.7) all located in downtown Columbia. He may add 444.100 to another location in the future.

* * * * *

In Packet News, KC4GYM has added 223.400 and 446.450 access to his packet BBS in West Columbia. 145.030 is being used by WA2GYM and KC4gym as the primary access. WA2GYM-5 is on 145.05.

* * * * *

The Florence ARC has a contest going on to increase Net participation. The club member who checks in the most times will win $100.00. In case of a tie, the member who has attended the most club meetings will win.

* * * * *

The Columbia Amateur Radio Club is currently finishing the latest modifications to their Metro System which includes three repeaters in the Columbia area linked together. 145.43 will be relocated to a site in Lexington as soon as the new hardline can be purchased. It is still on top of Lexington County Medical Center at I-26/378 in West Columbia. The 444.200 repeater also on the Hospital will be the backbone of the system with the autopatch accessible through it. 146.775 is located on the outskirts of Fort Jackson and provides good coverage to camden, Florence and Sumter. KD4DPC reports he has worked the 146.775 machine from Cheraw with 25 watts and a 5/8 wave. We have tried this repeater on the way to the beach on I-20 and it workes very well toward Florence. The PL of 156.7 is used on all repeaters but 146.775 is accessible without a tone. KC4GYM (Chris) is still the Trustee and everyone in Columbia is quite appreciative of his efforts to maintain the system.

* * * * *

Robert Cooke, KD4DPC is the new Public Affairs Coordinator for the Columbia Amateur Radio Club. Robert sent information from the Midlands for this quarters column and we were very pleased to receive it. This will fill a void we have had for quite some time. TX Robert.

Packet News

The Grand Strand area is up and running on 145.67 with a node and BBS on this freq. soon to come. When we were in the area just after Christmas we heard tests being conducted on the node.

NEW MOUNTAIN TOP BBS

The N4HWU BBS is now in operation on 145.67 from TRYON PEAK.

The BBS is located on the mountain at a 3600ft and does not require a node to connect. This makes the BBS very fast and has coverage of about 150 miles. The system is running the FBB BBS program which allowes for remote sysop of the system. Fowarding is provided by Jim, KI4FL from Union. In the future the more ports are planned on other bands. If you are tired of waiting forever for the BBS to download a file to you, this is the BBS for You!

Until next time keep sending news!

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New 440 Repeater For Weston WV Area

-by Patrick H. Shea, N8MIN

In the Weston (WV) Area, myself and Rick Daugherty, N8FIP has installed a new 70 cm repeater, operating on 443.975. The N8FIP machine was primarily installed for emergency power communications, as this is the only ham repeater in the county with emergency power. Our other local machine has been very vulnerable to power interruptions. The new machine has primarily county-wide coverage and in short future will have 2-meter remote base and autopatch.

In the installation process of the 70 cm machine, the Packet node Lewis (N8FIP-9) was moved to the same location for the benefit of the emergency power. This node operates a Kantronics KPC-2 controller with mail-drop of (LCBOX) on a frequency of 145.05. The node has moderate coverage into surrounding counties and a primary goal is to be path support into the W8SP packet BBS.

Other Area News

Lewis County High Schools instructor Mark Lynch has for the second year, offered an electronics class, in which students learn the electronic theory preparing them for the Amateur exams. The school is also equipped with a full HF and 2-Meter with packet station consisting of: Drake Twins, a Yaesu 207R, MFJ-1279D, Ringo Ranger and a 3-element Tri-Band Cushcraft Yagi.

The Central Amateur Radio Association has set up an Amateur station at the Lewis County 911 Center for use of Amateurs in the event of an Emergency situation. The station includes provisions for HF and VHF and in the future will include a packet station. This station is also emergency powered which will make it useful in times of emergency and disaster.

WV ARA Reports Towers Down In Ice

The Appalacian Repeater Association in West Virginia sent out notices to all members in early January, that towers supporting two of the systems repeaters came down due to overload of ice during a storm.

The letter said the 146.955 repeater and the new 443.625 WZ8E repeaters were off the air. They were both located on Oneida Peak, near Bluefield. Indications were that the 2M machine could get back on soon at a temporary location with borrowed antenna.

They indicated the hardline and antennas were going to be extremely costly, and urged members to pay their dues if overdue, and others to provide financial assistance in getting the system back up.

Financial assistance may be sent to ARA, 308 New Hope Road, Princeton, WV 24740.

New Novice/Technician Question Pools Released

-via W5YI

■ New Novice/Technician Exams Will Be Administered On July 1

The VECs Question Pool Committee (QPC) has completed work on a newly revised Element 2 and 3(A) Question pool. These two elements make up the sole requirement ofr Codeless Technician examination.

With receipt of the new questions, License preparation publishers are being asked to have their new study material on the shelves in the publishing marketplace on May 1.

VEs will begin using the new questions in all Element 2 (Novice) and 3A (Technician) exams administered after July 1.

Williams 19th Anniversary

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THE SERA OFFICIAL REPEATER INDEX

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Repeater owners are reminded to contact their local Frequency Coordinator (Director) for assistance in coordination, changes in their listings, or any other requirements.

SERA SIMPLEX FREQUENCIES

6 meters	52.49	52.51	52.525				
2 meters	146.40*	146.415*	146.43*	146.445*	146.46*	146.475	146.49*
	146.505*	146.52	146.535	146.55	146.565	146.58	146.595
	147.51	147.525	147.54	147.555	147.57	147.585	
220 MHz	223.44	223.46	223.48	223.50	223.52	223.54	223.56
	223.60	223.62	223.64	223.66	223.68	223.70	223.72
	223.74	223.76	223.78	223.80	223.82	223.84	223.86
	223.88	223.90					

* Permitted unless operation would cause interference to repeater inputs

10 Meter	29.60						
440 MHz	445.825	445.85	445.875	445.90	445.925	445.95	445.975
(not all listed)	446.00	446.025	446.05	446.075	446.10	446.125	446.15
SERA Suggested Digital Simplex			145.01	145.03	145.05	145.07	145.09
	145.61	145.63	145.65	145.67	145.69	223.40	223.42
	223.58	223.66	223.70	223.72	223.74	223.76	223.78

NOTE: Digital operators are reminded to check with local Digital Societies for which digital channels are available for various digital usage, in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage.

DISTRIBUTION OF REPEATERS BY FREQUENCY

This by-frequency index contains repeaters in the States of Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. Virginia and West Virginia

PLEASE NOTE: The letters column between the frequency and the city indicates suffixes of the repeater callsign

This index is correct as of January 11, 1993

2 METERS

4.51 /5.11
- TUN AUGUSTA ..... GA
- MXC COCHRAN ..... GA
- UOX DOUGLASVILLE ..... GA
- HYE MENDENHALL ..... MS
- WA PASCAGOULA ..... MS
- TOH COLUMBIA ..... NC
- RXG SAURATOWN MT ..... NC
- JMT CONWAY ..... SC
- Y COOKEVILLE ..... TN
- SBX GRAY ..... TN
- BOX JACKSON ..... TN
- IJL KNOXVILLE ..... TN
- ARK NASHVLE/FAIRVIEW ..... TN
- YPE RICHMOND ..... VA
- MCR SALT ROCK ..... WV

4.91 /5.11
- JTX CHERRYVILLE ..... NC

4.53 /5.13
- SEX NEWNAN ..... GA
- Y VALDOSTA ..... GA
- RBL LA GRANGE ..... KY
- VF MOREHEAD ..... KY
- YNF AHOSKIE ..... NC
- CS GREENWOOD/HODGES ..... SC
- KIV SUMTER ..... SC
- CMY CHATTANOOGA ..... TN
- O #COLLIERVILLE ..... TN
- SSB GALLATIN ..... TN
- OAK LAFOLLETTE ..... TN
- KRM #SHELBYVILLE ..... TN
- VL GALAX/LKOUT MT ..... VA
- YET HARRISONBURG ..... VA
- FHE BUCKHANNON ..... WV

4.55 /5.15
- MM ALBANY ..... GA
- AQL ATLANTA ..... GA
- LT MILLEDGEVILLE ..... GA
- TLK MONTICELLO ..... KY
- IWZ PIKEVILLE ..... KY
- LFP PICAYUNE ..... MS
- CVM RANDLEMAN/GBO ..... NC
- OXE INMAN ..... SC
- LWY SUMMERTON ..... SC
- RJC DECATUR-PONE KB ..... TN
- JXI MEMPHIS ..... TN
- MJF ALEXANDRIA ..... VA
- ARO GREENBAY ..... VA
- HDB MARMET ..... WV
- FSE MARTINSBURG ..... WV

4.57 /5.17
- JBF COOLIDGE ..... GA
- DIW JONESBORO ..... GA
- PRH HALLS GAP ..... KY
- BRN HORN LAKE ..... MS
- ZQB NEWTON/ANDSN MT ..... NC
- RVS OXFORD ..... NC
- TUN AIKEN ..... SC
- GBI KNOXVILLE ..... TN
- BRN MEMPHIS ..... TN
- LHO MURFREESBORO ..... TN
- ZN LORTON ..... VA
- JOQ LORTON ..... VA
- ZUA NORFOLK ..... VA
- FRV BECKLEY/BOLT ..... WV

4.59 /5.19
- ULJ PINE MT/HAMILTON ..... GA
- UVT BOONEVILLE ..... NC
- WGA JACKSONVILLE ..... NC
- BVW MT MITCHELL ..... NC
- OTT CARTHAGE ..... TN
- XX JASPER ..... TN
- FAX RICHMOND ..... VA
- YJJ RICHWOOD ..... WV
- JGY WHEELING ..... WV

4.61 /5.21
- KEC EASTMAN ..... GA
- PSZ FAYETTEVILLE ..... GA
- U DEANE ..... KY
- BOP ERLANGER ..... KY
- WRE POPLARVILLE ..... MS
- TQD TRENTON ..... NC
- NEP GASTON ..... SC
- BBB KNOXVILLE ..... TN
- ARK NASHVILLE ..... TN
- MS KILMARNOCK ..... VA
- QOJ ROANOKE/POOR MT. ..... VA
- RAG WINCHESTER ..... VA
- FEQ #HUNTINGTON ..... WV

4.63 /5.23
- JEH CONYERS ..... GA
- UJ DALTON ..... GA
- COL WAYNESBORO ..... GA
- PRH GEORGETOWN/LXTNG ..... KY
- PRH OXFORD/LEXINGTON ..... KY
- VBH BEULAVILLE ..... NC
- BFB CHARLOTTE ..... NC
- RA LAVERNE ..... TN
- KIE MAYNARDVILLE ..... TN
- DBB BEDFD/APL ORCH ..... VA
- MT NEWPORT NEWS ..... VA

4.65 /5.25
- BLQ CLAYTON ..... GA
- GL SCOTTSVILLE ..... KY
- SJE GREENSBORO ..... NC
- UIV CHARLESTON ..... SC
- BRV ERWIN ..... TN
- DRL FISHERVILLE ..... TN
- MMI POCAHONTAS ..... TN
- CZJ BEAVERDAM ..... VA

4.67 /5.27
- CGV SANDERSVILLE ..... GA
- PN WALESKA/PNLGMT ..... GA
- NBG WALLS ..... MS
- DZJ WIGGINS ..... MS
- KNI HENDSVL/BERWLW M. ..... NC
- AR MIDWAY ..... NC
- BQF RALEIGH ..... NC
- GY MWEST COLUMBIA ..... SC
- WZK HENDERSONVILLE ..... TN
- CJX SEV/SHIELDS MT. ..... TN
- SKE MARION ..... VA
- J STAFFORD ..... VA
- FMD CRAIGSVILLE ..... WV

4.69 /5.29
- DRQ ATLANTA ..... GA
- TDL AUGUSTA ..... GA
- PL LAWRENCEBURG ..... KY
- PRH STANTON ..... KY
- L VICKSBURG ..... MS
- BFB CHARLOTTE ..... NC
- GGD GREENSBORO ..... NC
- VCM CHATTANOOGA ..... TN
- SQC JOHNSON CITY ..... TN
- FFM RIDGETOP ..... TN
- YLX CHARLOTTESVILLE ..... VA
- NDH CHESAPEAKE ..... VA
- YLX TROY ..... VA
- ZXP GLENVILLE ..... WV

4.71 /5.31
- CEK COLUMBUS ..... GA
- JDR STOCKBRIDGE ..... GA
- GOJ CHATAWA ..... MS
- WPM BAKERSVILLE ..... NC
- QAA GREENSBORO ..... NC
- GY BEAUFORT ..... SC
- PF ROCK HILL ..... SC
- PNI ATHENS ..... TN
- SC JACKSON ..... TN
- ECD LAFAYETTE ..... TN
- FXP HERNDON ..... VA
- G BECKLEY/LAYLAND ..... WV

4.73 /5.33
- OGF JONESBORO ..... GA
- YUU LEXINGTON ..... KY
- CYR GULFPORT ..... MS
- J MT. AIRY ..... NC
- DFP BAMBERG ..... SC
- DBJ CUMBERLAND CITY ..... TN
- TEM KNOXVILLE ..... TN
- DRL MEM/FISHERVILLE ..... TN
- QQI FARMVILLE ..... VA
- F NORFOLK ..... VA
- QC PARSONS ..... WV
- M WILLIAMSON ..... WV

4.75 /5.35
- DOC ATLANTA ..... GA
- DOC ATLANTA ..... GA
- FGG ROSSVILLE ..... GA
- WMH OLIVE BRANCH ..... MS
- AOS CHARLOTTE ..... NC
- JPQ GREENVILLE ..... NC
- Y HUMBOLDT ..... TN
- JYD NOLENSVILLE ..... TN
- AZJ BLAND ..... VA
- AQD FALLS CHURCH ..... VA
- SP FAIRMONT ..... WV

4.77 /5.37
- UA AUGUSTA ..... GA
- IZF JASPER ..... GA
- NNX HATTIESBURG ..... MS
- PYQ SOUTHAVEN ..... MS
- AGN N. WILKESBORO ..... NC
- MII OXFORD ..... NC
- PPD SHALLOTTE ..... NC
- GRC KNOXVILLE ..... TN
- OG #SMITHVILLE ..... TN
- UKJ FOREST ..... VA
- TOG GLOUCESTER ..... VA
- VS BECKLEY/EOC ..... WV
- VNQ PARSONS ..... WV

4.29 /5.39
- RPB CORINTH ..... MS

4.79 /5.39
- HYB GRIFFIN ..... GA
- KDZ FRANKFORT ..... KY
- DG MONROE/UCARS ..... NC
- NXU BOWMAN ..... SC
- AM CHATTANOOGA ..... TN
- EPC GREENEVILLE ..... TN
- DOR LEBANON ..... TN
- ARO ROANOKE/POOR MT NV ..... VA
- EOM WESTON ..... WV

4.81 /5.41
- PME ATLANTA/BELL ..... GA
- I #AUGUSTA ..... GA
- PXX BRNSWK/JEKYLL IS. ..... GA
- NON COVINGTON ..... KY
- DC GLASGOW ..... KY
- IF D'IBERVILLE ..... MS
- XO HIGH POINT ..... NC
- KNU WILLIAMSTON ..... NC
- VIH DOVER ..... TN
- NKM GREENEVILLE ..... TN
- SSB MONTEAGLE ..... TN
- ZMS BEDFD-APL ORCH ..... VA
- QIJ WILLIAMSBURG ..... VA
- FHE BUCKHANNON ..... WV
- HYX LIBERTY ..... WV

4.83 /5.43
- OLL MACON ..... GA
- LCI MARIETTA ..... GA
- LVU COLUMBUS ..... MS
- ITL SPARTA/GREEN MT ..... NC
- GYM WEST COLUMBIA ..... SC
- YTU BROWNSVILLE ..... TN
- UCE COOKEVILLE ..... TN
- IUA KNOXVILLE ..... TN
- SQT RICHMOND ..... VA
- L CHARLESTON ..... WV
- LG MORGANTOWN ..... WV

4.85 /5.45
- BOC DECATUR ..... GA
- TX LEXINGTON ..... KY
- PLY CROWDERS MT/GAST ..... NC
- WTX DURHAM ..... NC
- GRW NEWPORT ..... NC
- SIR BENTON ..... TN
- KOG COVINGTON ..... TN
- KO HOHENWALD ..... TN
- LP MORRISTOWN ..... TN
- E SPRING HILL ..... TN
- HQ SALUDA ..... VA
- LGY GRANTSVILLE ..... WV
- SXZ WELCH ..... WV

4.87 /5.47
- UV HINESVILLE ..... GA
- CLA SWEAT MT/MARIETT ..... GA
- GGH BARDSTOWN ..... KY
- WMM MAYSVILLE ..... KY
- OIX KINSTON ..... NC
- NC SAURATOWN MT. ..... NC
- RG GAFFNEY ..... SC
- DDK MYRTLE BEACH ..... SC
- GBI KNOXVILLE ..... TN
- OMO MOUNTAIN CITY ..... TN
- ARK NASHVILLE ..... TN
- EFJ ARLINGTON ..... VA
- ZCM CLARKSVILLE ..... VA
- FG RICHWOOD ..... WV

4.89 /5.49
- DV AUGUSTA ..... GA
- RWS CORDELE ..... GA
- QPL MARIETTA ..... GA
- PXK CLARKSON ..... KY
- KVK HENDERSON ..... KY
- CWF NICHOLASVILLE ..... KY
- VGK FULTON ..... MS
- ZCZ FRANKLIN ..... NC
- DZ GIBSONVILLE ..... NC
- BWC RALEIGH ..... NC
- ABW RKY RDG/WALLACE ..... SC
- LHO MCMINNVL/SHT MT. ..... TN
- KQG MEMPHIS ..... TN
- MOP BLUEFIELD ..... VA
- OHX NEWPORT NEWS ..... VA
- MOP BLUEFIELD ..... WV
- G PARKERSBURG ..... WV

4.625/5.525
- YYD #FORT MTN ..... GA

6.265/5.865
- KP TRENTON ..... TN

6.01 /6.61
- CVY COLUMBUS ..... GA
- JEH CONYERS ..... GA
- BDP WARNER ROBINS ..... GA
- KWV CORBIN ..... KY
- IXI LAUREL ..... MS
- SNI GREENSBORO ..... NC
- JMS NEW BERN ..... NC
- NYK GRNVLE/CSRS HD ..... SC
- CMY CHATTANOOGA ..... TN
- PCD NASHVILLE ..... TN
- LSP ABINGDN/BRMLY MT. ..... VA
- GSP CHESAPEAKE ..... VA
- WWQ LYNCHBURG ..... VA
- MZI GASSAWAY ..... WV

6.025/6.625
- UPE ATL/UNION CITY ..... GA
- UJT ELBERTON ..... GA
- ZZ VIDALIA ..... GA
- WO PORT GIBSON ..... MS
- RR LAURINBURG ..... NC
- IP CHESTER ..... SC
- GBI KNOXVILLE ..... TN
- ABU MARTIN ..... TN
- AVW NEW MARKET ..... VA
- G FLATTOP/WINTRPL ..... WV

6.04 /6.64
- QGR ATLANTA ..... GA
- MWQ AUGUSTA ..... GA
- FWD CARROLLTON ..... GA
- CEX WAYCROSS ..... GA
- UXJ CAMPBELLSVILLE ..... KY
- NIL JACKSON ..... MS
- NAY MOOREVILLE ..... MS
- YAO HENDERSONVILLE ..... NC
- DW RALEIGH ..... NC
- NC WINSTON-SALEM ..... NC
- KIV SUMTER ..... SC
- KQQ #MEMPHIS ..... TN
- NTM NASHVILLE W ..... TN
- QYI #ROCKWOOD/MT ROOTN ..... TN
- WIC FINCASTLE ..... VA
- QLF MARION ..... VA
- QEY RICHMOND ..... VA
- EZR HUNTINGTON/CHAS ..... WV

6.055/6.655
- NFP ATLANTA/MARIETTA ..... GA
- MNI BOWLING GREEN ..... KY
- DZG DANVILLE ..... KY
- CEB CONCORD/KANNAP. ..... NC
- VTX ELIZABETH CITY ..... NC
- RYR ALCOA ..... TN
- OKV BROWNSVILLE ..... TN
- AM CHATT/SIGNAL MT. ..... TN
- ME COLLINWOOD TN ..... TN
- PDP ALEXANDRIA ..... VA
- ISI ALTAVISTA ..... VA
- BUC UPPER TRACT ..... WV

6.06 /6.66
- BKM MACON ..... GA

6.07 /6.67
- NSG GAINESVILLE ..... GA
- EQL JESUP ..... GA

VHF HAZARD.....KY
KBL PRINCETON.....KY
CAX NEW ALBANY.....MS
YGD BURLINGTON.....NC
BKU CHERRY MT.....NC
RPC YAUPON BEACH.....NC
U ST. MATTHEWS.....SC
DKI BRISTOL.....TN
BGW LAFOLLETTE/WMT.....TN
NTM NASHVILLE W.....TN
HZS BARREN SPRINGS.....VA
NTG WILLIAMSBURG.....VA
JNU RAVENSWOOD.....WV
6.085/6.685 IWL ADAIRSVILLE.....GA
UWN FAYETTEVILLE.....GA
KQ OWENSBORO.....KY
KHB NATCHEZ.....MS
NBR GRIFTON.....NC
QP STATESVILLE.....NC
CO NEWBERRY.....SC
PIO WALLAND.....TN
HTA VIENNA.....VA
FMD CLARKSBURG.....WV
6.10 /6.70 MM ALBANY.....GA
OOM JASPER.....GA
DOJ MILLEDGEVILLE.....GA
TO SAVANNAH.....GA
JO GRAYSON.....KY
BDC LOUISVILLE.....KY
YGM UNION CITY (TN).....KY
GY BAY ST. LOUIS.....MS
LVA GRENADA.....MS
DEJ MERIDIAN.....MS
CID DUNN.....NC
PAX LANCASTER.....SC
KUD ANDERSON CTY.....TN
UOT MANCHESTER.....TN
MMI RAMER.....TN
YGM UNION CITY.....TN
AU DANVILLE/WHT OAK...VA
D NORFOLK.....VA
LQC PENNINGTON GAP.....VA
XD STAUNTON.....VA
JNU RAVENSWOOD.....WV
6.115/6.715 NVG LAVONIA.....GA
ABZ RINGGOLD.....GA
B BEREA.....KY
TQY GREENWOOD.....MS
GGN MILLERS CREEK.....NC
KDC SPRING LAKE.....NC
NEP COLUMBIA.....SC
JUB SALTILLO.....TN
I BLACKSBURG.....VA
TXE STERLING.....VA
GL SHERRARD.....WV
6.13 /6.73 MM ALBANY.....GA
NC ATLANTA/SWEAT MT....GA
TVE BRUNSWICK.....GA
STY #DAWSON SPRINGS...KY
SWF DORTON.....KY
AO LANCASTER.....KY
IF BILOXI.....MS
VZF STARKVILLE.....MS
BWC RALEIGH.....NC
EXU SALISBURY.....NC
VNK WILMINGTON.....NC
FKJ N. AUGUSTA.....SC
BJY SIMPSONVILLE.....SC
IOB KNXVL/ENG MT.....TN
DAZ MEMPHIS.....TN
WA WATERTOWN.....TN
DHO HAMPTON.....VA
AVZ LEWISBURG.....WV
6.145/6.745 BKF ATHENS.....GA
TTC GREENVILLE.....KY
N DILLON/PEE DEE.....SC
RCK DYERSBURG.....TN
UP OLIVER SPRINGS.....TN
DY ROANOKE/POOR MT...VA
L BERKELEY SPRINGS.....WV
6.16 /6.76 BOC STONE MT.....GA
ELN VALDOSTA.....GA
NSY #FERN CREEK.....KY
KJQ LEXINGTON.....KY
CUW PADUCAH.....KY
AXQ JACKSON.....MS
BVW ASHVL/MT PISGAH.....NC
GGD GREENSBORO.....NC
S SWANSBORO.....NC
THL WILSON.....NC
LSP BRISTOL/HLSTN MT.....TN
PQP NASHVILLE.....TN
TFZ CHARLOTTESVILLE.....VA
ZIN WILLIAMSBURG.....VA
VA HUNTINGTON.....WV
CUL MORGANTOWN.....WV
ZQ WHEELING.....WV
6.175/6.775 NFP MARIETTA.....GA
NA WRENS.....GA
PPM MIDDLESBORO.....KY
TKI VANCEBURG.....KY
JYH SOUTHPORT.....NC
GYM COLUMBIA.....SC
O FRUITLAND.....TN
OYG PULASKI/MUSIC MT.....TN
T WYTHEVILLE.....VA
BWZ ELKINS.....WV
6.19 /6.79 DMK FOLKSTON.....GA
KOW MOULTRIE.....GA
SEX NEWNAN.....GA
VYX SWAINSBORO.....GA
YWH HIGHLAND HEIGHTS...KY
U PAINTSVILLE.....KY
TYP BILOXI.....MS
S WEST POINT.....MS
LZD CLINTON.....NC
QDK SAURATOWN MT.....NC
FVV ANDERSON/SAS MT....SC
USN CHARLESTON.....SC

AM CHATTANOOGA.....TN
ABR JOHNSON CITY.....TN
SQE NASHVILLE.....TN
SD CHESAPEAKE.....VA
LBL FAIRFAX.....VA
OQC OAK HILL.....WV
6.205/6.805 IEZ JULIETTE.....GA
NNE GUTHRIE.....KY
C STARKVILLE.....MS
EWG FAYETTEVILLE.....NC
IZF GASTONIA.....NC
O ORANGEBURG.....SC
NNE GUTHRIE (TN/KY).....TN
HTI COVINGTON.....VA
7.405/6.805 AQS CALHOUN/JASPER.....GA
6.22 /6.82 MM ALBANY.....GA
DOC ATLANTA.....GA
HVK KIBBEE.....GA
N MUHLENBERG CNTY...KY
MBA GREENVILLE.....MS
PZA ROARING GAP.....NC
GMP WILMINGTON.....NC
NYK GRNVLE/PARIS MT.....SC
E GREENBRIER.....TN
OAH LAKE CITY.....TN
BS MEMPHIS.....TN
SFF WINCHESTER.....TN
WWB GATE CITY.....VA
RKC WINCHESTER.....VA
IFS CHARLESTON.....WV
7.42 /6.82 BS MEMPHIS.....TN
6.235/6.835 GSS THOMSON.....GA
ZOX SALVISA.....KY
PLA #ASHEVILLE.....NC
UOR NAGS HEAD/BODIE....NC
USH WADESBORO.....NC
UDD CHARLESTON.....SC
IDG WATERTOWN.....TN
DCX GRUNDY/BIG A MT.....VA
UTN RUSTBURG/LONG MT...VA
EUN GLENVILLE.....WV
7.435/6.835 KHQ DAHLONEGA.....GA
NNR HIGH POINT.....NC
6.25 /6.85 DVJ DALLAS.....GA
QWI WARNER ROBINS.....GA
CLL BOWLING GREEN.....KY
IV PIKEVILLE.....KY
VNO BAY ST. LOUIS.....MS
JMD BUDE.....MS
BWW CLEVELAND.....MS
MFK IUKA.....MS
LWC KOSCIUSKO.....MS
CYP GOLDSBORO.....NC
MDW HICKORY/BRT. MT.....NC
YEC REIDSVILLE.....NC
ULH FLORENCE.....SC
KJH GTLBG/COVE MTN.....TN
KOG MEMPHIS.....TN
TK NASHVILLE.....TN
POX PORTSMOUTH.....VA
ZBP STAUNTON.....VA
WDK BECKLEY/FLAT TOP.....WV
L BUCKHANNON.....WV
6.265/6.865 DKY MADISON.....GA
UW RICHMOND.....KY
YF BIG KNOB/GREY CT....SC
G FAYETTEVILLE.....TN
7.465/6.865 DWU ELLISVILLE.....MS
FOY MURPHY/STALCUP.....NC
ZRS WAXHAW.....NC
AA #CROSSVILLE.....TN
E MOUNTAIN LAKE.....VA
6.28 /6.88 CVY COLUMBUS.....GA
IUD MARIETTA.....GA
FGH QUITMAN.....GA
HBB SAVANNAH.....GA
OAU LOUISVILLE.....KY
U MAYTOWN.....KY
AI SOMERSET.....KY
QNE JACKSON.....MS
AAY PASCAGOULA.....MS
TQD RALEIGH.....NC
NYR SHELBY.....NC
WIF ORANGEBURG.....SC
CYZ BRISTOL.....TN
ETE MEMPHIS.....TN
TOA NASHVILLE.....TN
SKH OAK RIDGE.....TN
CYZ BRISTOL.....VA
ZBE RICHMOND.....VA
PDL SALEM.....VA
CQV SO. CHARLESTON.....WV
6.295/6.895 RBS HARTWELL.....GA
SM MACON.....GA
JBV FLORENCE.....KY
YFF MADISON.....NC
ABW PAGELAND/HIPOINT...SC
RAG CHARLOTTESVILLE.....VA
KXV VIRGINIA BEACH.....VA
7.495/6.895 LUQ DALLAS.....GA
6.30 /6.90 WVH IRVINGTON.....KY
6.31 /6.91 HIG CLEVELAND/LONG....GA
HYB GRIFFIN.....GA
GFY MOREHEAD.....KY
VV HERNANDO.....MS
OCM NATCHEZ.....MS
ZGQ AHOSKIE.....NC
MOE ASHVL/SPIVEY MT.....NC
YZF FAYVLLE/CFARS.....NC
IZM LEXINGTON.....NC
BWZ WHITE HALL.....SC
GZX CLEVELAND.....TN
DQU SAVANNAH.....TN
YXA SHORT MTN.....TN
AXH CHASE CITY.....VA
TUE MT.LAKE/BALD KNB....VA
XG TYSONS CORNER.....VA
FQN MCMECHEN.....WV
6.325/6.925 ASI COVINGTON.....GA

PJR JESUP.....GA
BEJ RADCLIFF.....KY
VOJ CORINTH.....MS
OBW SULPHUR SPRINGS.....TN
TFZ CHARLOTTESVILLE.....VA
QT DANVILLE(DCC).....VA
OGY PRINCETON/PIPEST.....WV
6.34 /6.94 N AUGUSTA.....GA
VO ROME/MT. ALTO.....GA
RVB WRIGHTSVILLE.....GA
SN ASHLAND.....KY
WZH GLASGOW.....KY
AUZ #LEXINGTON.....KY
NTB MURRAY.....KY
DWX AMORY.....MS
SBK JACKSON.....MS
JMD MCCOMB.....MS
DLH BURGAW.....NC
BFB CHARLOTTE.....NC
BFT DURHAM.....NC
VM MANTEO/WANCHESE..NC
NZ MT AIRY.....NC
PBC CHARLESTON.....SC
IQG GREENVILLE.....SC
GBI KNOXVILLE.....TN
BSM MEMPHIS.....TN
PCD NASHVILLE.....TN
L ABINGDON.....VA
UMI HAMPTON.....VA
ZA RICHMOND.....VA
AP ROANOKE.....VA
CWO WEIRTON.....WV
6.355/6.955 KIN PERRY.....GA
PRE ROCKY TOP MT.....GA
OCP RABBIT HASH.....KY
OB ISOLA.....MS
AVP ROCKINGHAM.....NC
E ONEIDA PEAK/BLF.....VA
6.37 /6.97 CLJ ATLANTA.....GA
HBB SAVANNAH.....GA
DPP HENDERSON.....KY
TUK STANTON.....KY
MJM MERIDIAN.....MS
ZH PASCAGOULA.....MS
DHS WINONA.....MS
XRY MT AIRY.....NC
JQ SMITHFIELD.....NC
SZ ANDERSON.....SC
ISM FLORENCE.....SC
TRC KNGSPT/BAYS MT.....TN
MWQ MCMINNVILLE.....TN
RWK MEDINA.....TN
SKH OAK RIDGE.....TN
FPM MANASSAS.....VA
WRN STAUNTON.....VA
KXV VIRGINIA BEACH.....VA
E LOGAN/WARD RK MT.WV
CRW PARKERSBURG (OH)....WV
6.38 /6.98 BEJ ELIZABETHTOWN.....KY
6.385/6.985 I AUGUSTA.....GA
HHH ELLIJAY/TALONA M....GA
TOV PRESTON.....GA
UUB ST. MARYS.....GA
FE WARM SPRINGS.....GA
DMT SENATOBIA.....MS
OGB ALBEMARLE.....NC
PVE MARION.....NC
IY FRANKLIN.....TN
GA ROANOKE/POOR MT...VA
EIV CHARLESTOWN.....WV
LL NEW MARTINSVILE.....WV
6.40 /7.00 NNO ATLANTA.....GA
OQX ROCHELLE.....GA
UFH CORINTH.....MS
QFX WATER VALLEY.....MS
FVO JACKSONVILLE.....NC
AZA THOMASVILLE.....NC
HE COLUMBIA.....SC
YLT MARION.....SC
YXZ PICKENS.....SC
AZQ KNOXVILLE.....TN
ZJM MEMPHIS.....TN
HMT SUFFOLK.....VA
WMX ST ALBANS.....WV
6.64 /7.00 HE LEXINGTON.....SC
7.60 /7.00 WAU ELKHORN CITY.....KY
LR SHELBYVILLE.....KY
M WILLIAMSBURG.....KY
NKZ COLUMBUS.....MS
KMG BLOUNTVILLE.....TN
SGA CLARKSVILLE.....TN
QS COLLEGEDALE.....TN
ZR TERRA ALTA.....WV
6.415/7.015 GIS CARTERSVILLE.....GA
XRY YADKINVILLE.....NC
M LYNCHBURG.....VA
AXO NORTON/HIGH KNOB..VA
7.615/7.015 DT BONAIRE.....GA
UM MIDWAY.....GA
FDK LEXINGTON.....KY
JHK MONTICELLO.....MS
KPF LK NORMN/CLT.....NC
YP SELMA.....NC
UMU SUMTER.....SC
JVV LEBANON.....TN
KS ROCKWOOD/MT ROOSTN
YGM UNION CITY.....TN
LNT FREDRICKSBURG.....VA
6.43 /7.03 D LAUREL.....MS
YTZ ROCK HILL.....SC
DRL GRANDJUNCTION.....TN
MVR LEXINGTON.....TN
JST RICHMOND.....VA
7.63 /7.03 REI ATLANTA/AIRPORT.....GA
ZVL HOPKINSVILLE.....KY
PJZ LOUISVILLE.....KY
LDD OCEAN SPRINGS.....MS
GG GREENSBORO.....NC
DTS ROANOKE RAPIDS.....NC

FOF BARNWELL.....SC
HOGN. MYRTLE BEACH.....SC
YGI COLLIERVILLE.....TN
NIQ FAYETTEVILLE.....TN
DRL GRAND JUNCTION.....TN
LP MORRISTOWN.....TN
IT MULLENS/HRNDN MT...WV
ECC ST MARYS/BENS R.....WV
7.64 /7.04 RNF WINFIELD (AL).....MS
6.445/7.045 AIH ANDREWS/ROBBINSV...NC
FLR FAYETTEVILLE.....NC
7.645/7.045 TYM METTER.....GA
NFA WATKINSVILLE.....GA
VF GRETHEL.....KY
BEC BALD CREEK.....NC
QP STATSVL/ASBRY MT.....NC
HKZ COOKEVILLE.....TN
AYN NASHVILLE.....TN
FOZ STAUNTON/EL. KB.....VA
SBC VIRGINIA BEACH.....VA
6.46 /7.06 CQ CHARLOTTE.....NC
LBM ALTON.....VA
PNC PRINCETON.....WV
7.66 /7.06 DDI MACON.....GA
CLA ROSWELL.....GA
UCJ THOMASVILLE.....GA
WQ PADUCAH.....KY
OCF RICHTON.....MS
LED MACO.....NC
VFR SUMTER/SHAW.....SC
UG GRNVLE/VIKING MT....TN
MQQ MEMPHIS.....TN
QEB #SHELBYVILLE.....TN
ECM ENON.....VA
7.67 /7.07 NMC LOUISVILLE.....KY
7.675/7.075 JXR LAWRENCEVILLE.....GA
CJB PEMBROKE.....GA
TLP OWINGSVILLE.....KY
Y JACKSON.....MS
HBQ BURLINGTON.....NC
L NEWTON.....NC
E GREENBRIER.....TN
GBI KNOXVILLE.....TN
O MCNAIRY.....TN
HBU NORFOLK.....VA
PNT WAYNESBORO.....VA
QC MORGANTOWN.....WV
7.69 /7.09 GNA CHEAHA MTN (AL).....GA
YHM EATONTON.....GA
CVE ST SIMONS ISL.....GA
ZAC HARLAN.....KY
YK PHELPS.....KY
DSN AMORY.....MS
MRS NEW HEBRON.....MS
GDF GREENVL/ESTN NC....NC
RP ORANGEBURG.....SC
JLA SPARTANBURG.....SC
ATI GERMANTOWN.....TN
NLP JAMESTOWN.....TN
VL GALAX/BRIRP MT.....VA
TZE OILVILLE.....VA
7.705/7.105 YSB ATLANTA.....GA
D STATESBORO.....GA
KFD CALVERT CITY.....KY
FGA MARION.....KY
HXG WAYNESBORO.....MS
JCK MONROE.....NC
GHH MOUNTAIN HOME....NC
TC HENDERSON.....TN
IDG SHOP SPRINGS.....TN
JBJ BEDFORD.....VA
SR CHESAPEAKE.....VA
JTH MT STORM.....WV
Z SPENCER.....WV
6.09 /7.11 ZLR #LOGAN.....WV
7.72 /7.12 MM ALBANY.....GA
S AUGUSTA.....GA
CMA CEDARTOWN.....GA
HCA CLARKESVILLE.....GA
U BENTON.....KY
ASZ WINCHESTER.....KY
N ACKERMAN.....MS
REW GAST/SPCR MT.....NC
Z ROCKY MOUNT.....NC
JMT MYRTLE BEACH.....SC
ZYX COLUMBIA.....TN
GMV MEMPHIS.....TN
EAJ OAK RIDGE.....TN
DE COLLINSVILLE.....VA
VI CULPEPER.....VA
DKM BRIDGEPORT.....WV
7.735/7.135 BZJ DALTON.....GA
FRM MILLEDGEVILLE.....GA
Y VALDOSTA.....GA
ICN PAINTSVILLE.....KY
LRQ PETAL.....MS
GBH BREVARD.....NC
GN WILMINGTON.....NC
ABW CHERAW.....SC
EDS ALAMO.....TN
AZJ PEARISBURG.....VA
HB RICHMOND.....VA
7.75 /7.15 TFW ALBANY.....GA
BYK CUMMING/SAWNEE....GA
HKK JACNITO.....MS
IZ PEARL/RANKIN CO.....MS
VLY MORGANTON.....NC
TQD RALEIGH.....NC
BJM MONCKS CORNER.....SC
SDT SIMPSONVILLE.....SC
PCD NASHVILLE.....TN
EAJ OAK RIDGE.....TN
QJZ JEWELL RIDGE.....VA
SVR ST ALBANS.....WV
7.765/7.165 KIN FORSYTH.....GA
HBM LEXINGTON.....KY
UBY PRESTONSBURG.....KY
RIS HIGH POINT.....NC
VIA GREENWOOD.....SC

BRV #ERWIN/UNICOI CO ...TN
CEX PURYEAR...TN
CTF NEWPORT NEWS ...VA
N WARRENTON...VA
K WESTON...WV

7.78 /7.18 BMA AUGUSTA...GA
NHW BALDWIN...GA
BDP WARNER ROBINS...GA
H BAXTER...KY
CN LOUISVILLE...KY
UDQ INVERNESS...MS
EJJ SANFORD...NC
SFK TRYON/MELROSE MT...NC
CTJ WILMINGTON...NC
NAT DORCHESTER...SC
SC FT MILL/CAROWND ...SC
DES CLEVELAND...TN
KOG MEMPHIS...TN
ZGA NASHVILLE...TN
YKV AMELIA COURTHSE...VA
Z PKS KB/PULASKI...VA
OHX LEON...WV

7.795/7.195 JPD ATLANTA...GA
UCJ BOSTON...GA
NIN LENOIR...NC
WB MURPHY...NC
PNZ Fflorence...SC
AZQ KNOXVILLE...TN
RTS LYNCHBURG...VA
ELM SMITHFIELD...VA
H HORSEPEN MT...WV

7.81 /7.21 EMM CONYERS...GA
TO SAVANNAH...GA
HY OWENSBORO...KY
BUZ GREENSBORO...NC
MSD WHITEVILLE...NC
AVU LITTLE MT...SC
WS COOKEVILLE...TN
SBX GRAY/HOLSTON MT...TN
WKJ JACKSON...TN
IWG MCLEAN...VA
FMD CLARKSBURG...WV

7.825/7.225 ZUN JEFFERSON...GA
LVY SUMMERVILLE...GA
NFK LITCHFIELD...KY
OXA ESCATAWPA...MS
DRL WARSAW...MS
OOC ASHEVILLE...NC
WTX HILLSBOROUGH...NC
DTW SANTEE...SC
OAH MORRISTOWN...TN
VXR HAMPTON...VA
C HARRISONBURG...VA
NRK PRINCETON...WV

7.84 /7.24 NFG IRWINTON...GA
DII ASHLAND...KY
AVE FAIR DEALING...KY
AI FRANKFORT...KY
NAR MAYFIELD...KY
R TUPELO...MS
NIW CARTHAGE...NC
PBG FOREST CITY...NC
GHZ FRANKLIN...NC
ILN HILTON HEAD...SC
AC LANCASTER...SC
BKY GALLATIN...TN
FQR LUNENBURG CT.HSE...VA
GOR GOODRIDGE...VA

7.855/7.255 KDT ATLANTA...GA
IOX DIXON...KY
CO HIGHLAND HEIGHTS ...KY
RC LAUREL...MS
AV ASHEBORO...NC
KNI HENDSVL/PENIC/MT...NC
BZU NASHVILLE...TN
SI PETROS/FRZ HD MT...TN
TVS ACCOMAC...VA
CYZ DANTE...VA
EQC HINTON...WV
YZV MARLINBURG...WV
LLM PARKERSBURG...WV

7.87 /7.27 EBB AMERICUS...GA
KMS COVINGTON...GA
KWT LOUISVILLE...KY
USN ABERDEEN...MS
SXK VICKSBURG...MS
H RALEIGH BENSON...NC
SM WAYNESVILLE...NC
LET CHARLESTON...SC
JRJ SENECA/LONG MT...SC
YQC GALLATIN...TN
FH JOHNSON CITY...TN
TMC PINSON...TN
IKL GUM SPRING...VA
QWO ROANOKE/POOR MT NV A
S SCOTT DEPOT...WV

7.885/7.285 EVD ASHBURN...GA
VBX ATLANTA/GPCO...GA
ZFH LONDON...KY
FGA MARION...KY
EZN COLUMBIA...MS
CTS CORINTH...MS
ADMAIKEN...SC
DCD MYB BCH/BRKSVIL...SC
MGM WHITE OAK MTN...SC
ZTK BLUFF CITY...TN
PUX PIKEVILLE...TN
QT MARTINSVILLE...VA
HON SPRUCE KNOB...WV

7.90 /7.30 MU PERRY...GA
YSV ROME...GA
U PRESTONSBURG...KY
SJH SPRINGFIELD...KY
LNY MAGEE...MS
YJG JEFFERSON...NC
MZP RED SPRINGS...NC
OMV TUCKASEGEE...NC
ESG AWENDAW...SC
BBB KNOXVILLE...TN

ADT MEMPHIS...TN
ZSA NASHVILLE...TN
TSC BLUEMONT...VA
SPS FRANKLIN...VA
ZR LEXINGTON...VA
NSL HARRISVL/PENSBRO...WV

7.905/7.305 UMO #GREENVILLE...NC
7.915/7.315 REB TWIN CITY...GA
IL SALEM...KY
JYH SAURATOWN MT...NC
PPD SHALLOTTE...NC
UZT N. SPARTANBURG...SC
HZN ROGERSVILLE...TN
HFH ALEXANDRIA...VA
HWQ GRUNDY...VA
YET HARRISONBURG...VA

7.93 /7.33 BXO LAGRANGE...GA
DIP TOCCOA...GA
KWH ASHLAND...KY
KNE MT. STERLING...KY
IUI PROVIDENCE...KY
CYR MCHENRY...MS
EPP PHILADELPHIA...MS
LPL FAYVLLE/FT BRAGG...NC
K LENOIR/HIBRITN...NC
NUY COLUMBIA...SC
VXW COVINGTON...TN
ORB MORGAN COUNTY...TN
ZR LEXNGTN/ROCK MT. ...VA
ZIP WARSAW...VA

7.945/7.345 NEQ ATLANTA/MARIETTA ...GA
PJR JESUP/SCREVEN...GA
IZD LYNCH/BLACK MT ...KY
JC CLINTON...MS
NYR SHELBY...NC
TEP WASHINGTON...NC
LWS AWENDAW...SC
UVH HENDERSONVILLE...TN
UTN GLADYS...VA
ZBF YORKTOWN...VA
RUA FRANKLIN...WV
K LOGAN/SUMERCO...WV

7.96 /7.36 CLC DOUGLASVILLE...GA
HZX DUBLIN...GA
Z LOUISVILLE...KY
CJR HATTIESBURG...MS
PKU LOUISVILLE...MS
SVC NATCHEZ...MS
KDB BOONE/RICH MTN...NC
LDB DURHAM...NC
S LUMBERTON...NC
EOY COLUMBIA...SC
OAK LAFOLLETTE...TN
NTM NASHVILLE...TN
KLX PARIS...TN
CBB CHESTERFIELD...VA
OLM STUARTS DRAFT...VA

7.975/7.375 TQU ATHENS/CRAWFORD ...GA
VAK LAFAYETTE...GA
CO WALTON...KY
VFU GULFPORT...MS
YN BURNSVILLE...NC
ROK GREENVILLE...NC
DCD TABOR CITY...NC
DMI GEORGETOWN...SC
LEO GREENVILLE...SC
ILD LYNCHBURG...VA
NV VIRGINIA BEACH ...VA
LNB GRAFTON...WV
WMX ST ALBANS...WV

7.98 /7.38 NAY PONTOTOC...MS
7.99 /7.39 IMK THOMASTON...GA
NON COVINGTON...KY
RBL LA GRANGE...KY
PDJ #WHTSBRG/PINE MT...KY
UNA PRENTISS...MS
CHZ AQUADALE...NC
PLY CHARLOTTE...NC
GBG EDEN/STONEVILLE...NC
FAU SHALLOTTE...NC
IUY SMITHFIELD...NC
FEC LEXINGTON...SC
TA CLARKSVILLE...TN
PHT DAYTON/RHEA CTY...TN
BJY OAKFIELD...TN
AJO MADISON...VA
ARO PETERSBURG...VA
CRW PARKERSBURG...WV

6.19 /7.51 HBY MEMPHIS...TN
7.075/7.675 NGQ FRANKFORT...KY
7.315/7.915 STJ #FORSYTH...GA
6.46 /1.00 EHJ BARBOURSVILLE ...WV

220 MHZ

4.26 /2.66 DBB BEDFD/APL ORCH ...VA
2.12 /3.72 KHP STERLING...VA
2.14 /3.74 VMI LEXINGTON...KY
2.18 /3.78 OHX #LEON...WV
2.30 /3.90 RAB HERMITAGE...TN
2.32 /3.92 UXD AUGUSTA...KY
2.34 /3.94 QK ASHLAND...KY
GP CLARKSVILLE...TN
ZJM MEMPHIS...TN
HTA VIENNA...VA

2.38 /3.98 HUV LINWOOD...NC
ZSA GALLATIN...TN

2.42 /4.02 EHF FAYETTEVILLE...NC
TXE LEESBURG...VA

2.46 /4.06 NYR SHELBY...NC
MB ARLINGTON...VA

2.48 /4.08 NTM NASHVILLE...TN
2.50 /4.10 F BALDWIN...GA
YHD FAIRFAX...VA
DBB ROANOKE...VA

2.52 /4.12 NFP ATLANTA/MARIETTA ...GA
BEC BALD CREEK...NC
G FLAT TOP/WINTRPL ...WV

2.54 /4.14 JEH CONYERS...GA
WOR GREENSBORO ...NC
QHF PICKENS/CSRS HD...SC
SGS FRANKLIN...TN
YQC CHARLOTTESVILLE...VA
M #WILLIAMSON...WV

2.56 /4.16 JNN SASAFRAS MTN...GA
K LENOIR/HIBRITN...NC
S NASHVILLE...TN

2.58 /4.18 GLC BRUNSWICK ...GA
YDX DALLAS...GA
NRL CHARLESTON...SC
RWN COLUMBIA...SC

2.60 /4.20 OVY ATLANTA-NE...GA
UA AUGUSTA...GA
GN WILMINGTON...NC
ILY GREENVILLE...SC
KMG BLOUNTVILLE...TN
YTU BROWNSVILLE ...TN
PEA HAMPDEN-SYDNEY...VA

2.62 /4.22 NEQ MARIETTA...GA
QP VERSAILLES...KY
C ROCKY MOUNT...NC
FZK KNXVL/CROSS MT...TN
BN SPRINGFIELD...TN

2.64 /4.24 YYD ELLIJAY-BUCK MTN ...GA
KNI HENDSVL/BERWLW M...NC

2.66 /4.26 L MARIETTA...GA
BVW ASHVL/MT PISGAH...NC
WTX HILLSBOROUGH ...NC
NP SHORT MTN...TN

2.68 /4.28 BLR ATLANTA...GA
OAK LAFOLLETTE...TN
M LYNCHBURG...VA

2.70 /4.30 NYV TEMPLE...GA
MKT LOUISVILLE...KY
AI SOMERSET...KY
PVI STATESVILLE...NC

2.72 /4.32 JBF THOMASVILLE...GA
WA PASCAGOULA ...MS
WGA JACKSONVILLE...NC
X PICKENS/SASFR MT ...SC
US CLEVELAND...TN

3.72 /4.32 MTA ACWORTH...GA
2.74 /4.34 DOC ATLANTA ...GA
AZA THOMASVILLE...NC
CVL MANASSAS...VA

2.76 /4.36 BZJ DALTON...GA
TYO MARSHALL...NC
ZOE #NASHVILLE ...TN
YST CHARLESTON ...WV

2.78 /4.38 RBT CLEVELAND...GA
OQJ KNOXVILLE ...TN
QT DANVILLE ...VA

2.80 /4.40 DWU ELLISVILLE...MS
BFB CHARLOTTE ...NC
QHF PICKENS ...SC
YGI COLLIERVILLE...TN
RBB MORRISTOWN...TN

2.82 /4.42 YSV ROME...GA
AO LEXINGTON ...KY
VEZ #LOUISVILLE ...KY
BS MEMPHIS...TN
DE COLLINSVILLE...VA
KHP TYSONS CORNER ...VA

2.84 /4.44 NEQ ATL/MARIETTA...GA
IEV SPINDALE...NC
CW WEST SPRINGS ...SC
OG NASHVILLE...TN
FUV SEVIERVILLE...TN
GLA DANVLE/WHITE OAK ...VA

2.86 /4.46 Y VALDOSTA ...GA
ZTJ SHELBY ...NC
YON KNOXVILLE ...TN
FUJ LOVETTSVILLE...VA

2.88 /4.48 PRH NORCROSS...GA
ZIA LOCUST...NC
ZGA NASHVILLE...TN

2.90 /4.50 MTA MARIETTA...GA
TYP BILOXI...MS
YNY WILMINGTON ...NC
BBB KNOXVILLE ...TN
DRL MEM/FISHERVILLE...TN
BVI MARTINSVILLE...VA

2.92 /4.52 KSM WALESKA/PNLGMT ...GA
RWN LITTLE MTN...SC
OBW JONESBOROUGH ...TN
ONG RICHMOND...VA

3.92 /4.52 RPB GLEN...MS
2.94 /4.54 YEA DALLAS ...GA
BVW MT MITCHELL...NC

2.96 /4.56 DOC ATL/CHESTNUT MT...GA
DOC ATLANTA ...GA
EHF FAYETTEVILLE...NC

2.98 /4.58 F PIKEVILLE...KY
FKC ROCKY MOUNT...NC
YHH SAURATOWN MT...NC
VFD CROSS...SC

3.00 /4.60 GIS CARTERSVILLE...GA
N ASHEVILLE...NC
NNR HIGH POINT ...NC
HMT LAKE GASTON...VA

3.02 /4.62 ZTL ATLANTA/BELL...GA
DAR PIKEVILLE...KY
THN GLOUCESTER PT. ...VA

3.04 /4.64 ABZ RINGGOLD...GA
PEN RALEIGH ...NC
YHH WINSTON-SALEM ...NC
SWI #COLUMBIA...SC
RGQ CLINCH MTN...TN

3.06 /4.66 BKM MACON...GA
PLA MARS HILL...NC
AM SUNSET BEACH ...NC
VFR SUMTER/SHAW...SC
S NASHVILLE...TN
FPM MANASSAS...VA

3.08 /4.68 BZJ DALTON...GA
KPF LK NORMN/CLT...NC

3.10 /4.70 PZD HIRAM...GA
RXG SAURATOWN MT...NC
ARO PETERSBURG ...VA

3.12 /4.72 MBK CLAYTON...GA
DANTRENTON...NC
KO COLUMBIA ...TN
KHP TYSONS CORNER ...VA

3.14 /4.74 KVC DALTON...GA
TFU ASHEVILLE...NC
RVS OXFORD ...NC
PYI NASHVILLE...TN
RAG ELLIOTTS KNOB ...VA
WQJ VIRGINIA BEACH ...VA

3.16 /4.76 BOC STONE MT...GA
EXU SALISBURY...NC
E GREENBRIER...TN
TFZ CHARLOTTESVILLE...VA

3.18 /4.78 KLW ROCKMART...GA
D ACKERMAN...MS
WGY EDEN...NC
BR ORANGEBURG ...SC
VCM CHATTANOOGA ...TN
UCI JC/BUFFALO MT...TN
KOG MEMPHIS...TN
GJZ WOODBRIDGE ...VA

3.20 /4.80 PML MORGANTON...NC
E GREENBRIAR...TN

3.22 /4.82 C ATLANTA...GA
MOP LOUISVILLE...KY
D ACKERMAN...MS
HTS ARCHDALE...NC
DWU CANTON...NC
CCF ALEXANDRIA ...VA
SAD SINGERS GLEN...VA

3.24 /4.84 MU PERRY...GA
DANGRIFTON...NC
PLV BEDFORD...VA

3.26 /4.86 JNN ALPHARETTA...GA
GYR SUMTER...SC
KFI KNOXVILLE ...TN
UHA HAMPTON...VA

3.28 /4.88 UPC YORKVILLE...GA
AI SOMERSET...KY
VNO BAY ST. LOUIS ...MS
AIH ANDREWS/ROBBINSV ..NC
RXG SAURATOWN MT...NC
DRL FISHERVILLE...TN

3.30 /4.90 OPL MARIETTA...GA
ST PONTOTOC ...MS
EOY COLUMBIA ...SC
ZOK CHATT/SIGNAL MT...TN
HQ DELTAVILLE...VA

3.32 /4.92 NYK ROPER MT/GRNVL...SC
LGA BLFD/E.RIVER MTN ...VA

3.34 /4.94 KXO AUGUSTA...GA
EV ROSSVILLE...GA
YUU LEXINGTON ...KY
JJ FLORENCE ...SC
NKM GREENEVILLE...TN
PCD NASHVILLE...TN
EM ROANOKE/CHAUS MT.VA

3.36 /4.96 ZJG HIRAM...GA
JTX CHERRYVILLE...NC
CH GOLDSBORO ...NC
UQS HENDERSONVILLE ...NC
WTB SAURATOWN MT...NC
TUN AIKEN...SC
RA LAVERGNE...TN

3.38 /4.98 JSR CUMMING...GA
PNG JARVIS...KY
CHP FALLS CHURCH...VA

440 MHZ

9.45 /5.67 DOC ATLANTA ...GA
4.00 /1.25 ZTL #ATLANTA/BELL ...GA
9.25 /1.25 PXX BRNSWK/JEKYLL IS...GA
PPN CHARLOTTE ...NC
AZA SAURATOWN MT...NC
GUP LEXINGTON ...SC
ERU MEMPHIS...TN
ZQ NASHVILLE...TN

9.250/1.250 NS ELIZABETHTOWN...KY
TPI PULASKI...TN

9.25 /3.25 UMU SUMTER ...SC
VHP SAVANNAH ...GA
NOJ GAUTIER...MS
NOJ WAYNESBORO ...VA
MM ALBANY ...GA
AOH OWENSBORO ...KY
NYR SHELBY ...NC

1.25 /4.00 EM MEMPHIS...TN
6.25 /9.25 GVK ALEXANDRIA ...VA
FHL ROANOKE/POOR MT. .VA

7.00 /2.00 RTH ALPHARETTA...GA
ORL LOUISVILLE...KY
KPW #MARSHALL ...NC
HMT GASBURG ...VA
CSG WINCHESTER ...VA
T WYTHEVILLE...VA

7.05 /2.05 XV JASPER...TN
BJY MEDINA...TN

7.075/2.075 VOS STANTON ...KY
J LONE MOUNTAIN ...TN

7.10 /2.10 ABJ MILAN...TN
TXE STERLING...VA

7.125/2.125 PLP ROSSVILLE...GA
7.15 /2.15 QO DUNWOODY...GA
BEA RALEIGH ...NC
J CHATTANOOGA ...TN

7.150/2.150 TPI PULASKI...TN
7.175/2.175 BZJ #DALTON...GA
EO ROCKY FACE...GA
YUY ROANOKE ...VA

7.20 /2.20 APR DECATUR ...GA
GN WILMINGTON...NC
YOR BETHPAGE...TN
SBX GRAY/HOLSTON MT...TN
BJY OAKFIELD...TN
TXE STERLING...VA

7.225/2.225 KWT LOUISVILLE...KY

GUG GREENSBORO .....NC
7.25 /2.25 PQA GREENVILLE.....SC
DES CLEVELAND.....TN
HTI COVINGTON.....VA
7.275/2.275 VTT MACON.....GA
7.30 /2.30 NOG DULUTH.....GA
VFD CROSS.....SC
UBR COOKEVILLE .....TN
VDZ RICHMOND .....VA
BS BECKLEY/BOLT.....WV
7.325/2.325 JSR CHATTANOOGA .....TN
7.35 /2.35 NHW BALDWIN .....GA
7.375/2.375 PXV WEST JEFFERSON .....NC
7.40 /2.40 UER WARM SPRINGS .....GA
XV LATONIA .....KY
QHF PICKENS/CSRS HD.....SC
SSB MONTEAGLE .....TN
YI LYNCHBG/JACK MT. ...VA
7.425/2.425 HCA CLARKESVILLE .....GA
7.45 /2.45 RBL LOUISVILLE AREA .....KY
LMR RALEIGH .....NC
NEB CLEVELAND.....TN
7.475/2.475 NVG LAVONIA.....GA
7.50 /2.50 SSB HENDERSONVILLE .....TN
NTZ KNOXVILLE .....TN
CA ROANOKE/POOR MT ..VA
7.500/2.500 YNY WILMINGTON .....NC
7.55 /2.55 JEH CONYERS.....GA
MMY PITTSBORO .....NC
7.60 /2.60 USU MURPHY.....NC
SSB GALLATIN .....TN
VA #HUNTINGTON .....WV
7.625/2.625 NSO GAINESVILLE.....GA
AM SUNSET BEACH .....NC
EPG MEMPHIS.....TN
7.675/2.675 UP LAWRENCEBURG .....TN
7.70 /2.70 HHH ELLIJAY.....GA
AZU SAVANNAH .....GA
SSB GORDONSVILLE .....TN
VG ROANOKE/POOR MT. .VA
7.725/2.725 NMF ATLANTA/SWEAT MT....GA
YJ LOUISVILLE.....KY
7.75 /2.75 EMM MILLIDGEVILLE.....GA
GR BAKERSVILLE.....NC
7.80 /2.80 AAD YADKINVILLE .....NC
EPG JACKSON .....TN
MIC GUM SPRING .....VA
7.825/2.825 G MEMPHIS.....TN
7.875/2.875 IWK MACON.....GA
7.90 /2.90 AZA THOMASVILLE.....NC
BNW MULLAY .....TN
7.925/2.925 YHM EATONTON.....GA
7.95 /2.95 FU LYNCHBURG .....VA
7.975/2.975 YNZ ATLANTA.....GA
8.00 /3.00 OGF CHATSWORTH .....GA
KPW #MARSHALL .....NC
EOY COLUMBIA .....SC
ZJM MEMPHIS.....TN
X WHITETOP MTN.....VA
EZR HUNTINGTON .....WV
8.80 /3.00 KOG MEMPHIS.....TN
8.025/3.025 DZ BURLINGTON .....NC
8.05 /3.05 CH GOLDSBORO .....NC
PUB MT JULIET .....TN
8.075/3.075 UAG KNOXVILLE/CROSS MTN.....TN
8.10 /3.10 IZD LYNCH/BLACK MT .....KY
GGC SAURATOWN MT .....NC
GPM FAYETTEVILLE.....TN
JXT MEMPHIS.....TN
ADW POWHATAN .....VA
LJZ WOODBRIDGE .....VA
FHE BUCKHANNON .....WV
8.125/3.125 DEB HAMPTON.....GA
8.15 /3.15 QO DUNWOODY .....GA
HG SALISBURY .....NC
MHR ST. ALBANS .....WV
8.175/3.175 ARO GREENBAY .....VA
8.20 /3.20 APP HIGH HOUSE MTN.....GA
ZIA #HAMLET .....NC
UG GRNVLE/VIKING MT ....TN
BS MEMPHIS.....TN
8.225/3.225 QCP JONESBORO .....GA
ZCM RALEIGH .....NC
8.25 /3.25 VF DORTON.....KY
JEX KANNAPOLIS .....NC
8.275/3.275 KLW ROCKMART .....GA
8.30 /3.30 X ATHENS .....GA
SVQ ARCHDALE .....NC
IEV SPINDALE .....NC
KJH GATLBG/COVE MT .....TN
8.325/3.325 JMD STOCKBRIDGE .....GA
JMD STOCKBRIDGE .....GA
8.35 /3.35 YYD ELLIJAY-BUCK MTN .....GA
N GRNVLE/PARIS MT.....SC
LFU RICHMOND .....VA
8.375/3.375 AQS CALHOUN/JASPER .....GA
8.40 /3.40 RDM HAMPTON.....GA
WTB SAURATOWN MT.....NC
RPC YAUPON BEACH .....NC
TUN AIKEN .....SC
DBJ CUMBERLAND CITY .....TN
QWW MEMPHIS .....TN
8.425/3.425 CPO BRUNSWICK .....GA
MDE JASPER .....GA
SQC JOHNSON CITY/HMV ..TN
8.45 /3.45 VAK HIGH PT/LOOKT MT .....GA
VOZ STATESVILLE .....NC
8.475/3.475 X CHAPEL HILL.....NC
8.50 /3.50 EQC LOUISVILLE.....KY
UBY META.....KY
X LAUREL.....MS
PQZ GREENSBORO .....NC
WKS PARIS/GROVE HL .....TN
FI TYSONS CORNER .....VA
8.500/3.50 MTA MARIETTA.....GA
8.525/3.525 KLW ROCKMART .....GA
8.55 /3.55 IN DACULA .....GA
LRQ HATTIESBURG .....MS
XE ROARING GAP .....NC
ELM SMITHFIELD.....VA
8.575/3.575 PXV BOONE/RICH MTN.....NC
8.60 /3.60 BA MARIETTA.....GA
HYE MENDENHALL.....MS
DWU MT MITCHELL.....NC
CXD FOREST .....VA
8.625/3.625 MJN JAMESTOWN.....TN
E #ONEIDA PEAK/BLF.....VA
8.65 /3.65 ZV ATLANTA.....GA
D ACKERMAN.....MS
AIH ANDREWS/ROBBINSV ..NC
UMI HAMPTON.....VA
BON ROANOKE/POOR MT. .VA
8.675/3.675 IBW KNOXVILLE .....TN
8.70 /3.70 BA MARIETTA.....GA
LXW HIGH POINT.....NC
LBT LOCUST.....NC
DOR BARTLETT .....TN
8.725/3.725 OTT CARTHAGE.....TN
8.75 /3.75 TF COVINGTON.....GA
EDS ALAMO.....TN
EG #ROANOKE AIRPORT..VA
8.80 /3.80 NFP ATLANTA/MARIETTA ....GA
KOL BOWLING GREEN .....KY
IAT MITCHELL.....MS
HNK SUMMERVILLE.....SC
NDH CHESAPEAKE .....VA
VA INDEPENDNCE HILL .....VA
8.825/3.825 KRM SHELBYVILLE.....TN
KZI PETERSBURG .....VA
8.85 /3.85 YSV WALESKA/PNLOG MT .GA
ULM FRANKLIN.....TN
OB STAFFORD.....VA
8.875/3.875 LXT ATLANTA.....GA
MZ HAW RIVER.....NC
DUM WILLIS .....VA
8.90 /3.90 DEB GRIFFIN.....GA
DWU ELLISVILLE.....MS
RIS HIGH POINT.....NC
EVG CHESAPEAKE.....VA
8.925/3.925 LJU RINGGOLD.....GA
YR SOUTH BOSTON.....VA
8.95 /3.95 UFM DECATUR .....GA
RYF MEMPHIS.....TN
NTG WILLIAMSBURG .....VA
8.975/3.975 BRN MEMPHIS.....TN
WJS ROCKWOOD.....TN
RA SMRYNA.....TN
FIP WESTON.....WV
9.00 /4.00 GDX LAWRENCEVILLE .....GA
AFY SAVANNAH .....GA
II JACKSON .....GA
JEQ HICKORY.....NC
WAA #ROCKY MT.....NC
YP SELMA.....NC
BKY GALLATIN .....TN
ETE MEMPHIS.....TN
SN PORTSMOUTH.....VA
IT MULLENS/HRNDN MT...WV
9.025/4.025 MSE STONE MT.....GA
DZ LEVEL CROSS .....NC
RDK MEMPHIS.....TN
9.05 /4.05 NEQ ATLANTA/MARIETTA ....GA
OLC TAYLORSVL/BARR M....NC
OG NASHVILLE.....TN
AVA GREAT FALLS .....VA
OLM STUARTS DRAFT.....VA
9.075/4.075 PDQ MARYVILLE.....TN
9.10 /4.10 BKM MACON.....GA
MNI BOWLING GREEN .....KY
WTT #LOUISVILLE.....KY
WUX MERIDIAN.....MS
WTX DURHAM.....NC
AM CHATTANOOGA .....TN
JXT MEMPHIS.....TN
FOZ STAUNTON/EL KNOB ...VA
LFS WILLIAMSBURG .....VA
9.125/4.125 FMQ RICHMOND.....NC
ECD LAFAYETTE .....GA
9.15 /4.15 ZTL ATLANTA/BELL.....GA
BJT CLERMONT HARBOR ...MS
YCR NEW ALBANY .....MS
BQG GASTONIA.....NC
NTM NASHVILLE.....TN
MB ARLINGTON.....VA
ZR LEXNGTN/ROCK MT. ...VA
9.175/4.175 QOW COVINGTON .....GA
COV UNION.....KY
NNN KNOXVILLE.....TN
WTB STUART/SPOON MTN....VA
FMD CLARKSBURG .....WV
9.20 /4.20 LBM DECATUR .....GA
U MAYTOWN.....KY
E OAK LEVEL .....KY
YNF AHOSKIE .....NC
GN WILMINGTON.....NC
GYM #WEST COLUMBIA.....SC
YTU BROWNSVILLE .....TN
NEX MORRISTOWN.....TN
ECM ENON.....VA
EZA WAYNESBORO .....VA
9.225/4.225 VWK YANCEYVILLE.....NC
ARK NASHVILLE.....TN
9.25 /4.25 BOC ATLANTA/STONE MT....GA
DC GLASGOW/CVCTY.....KY
CYR GULFPORT .....MS
KNI HENDSVL/BERWLW M..NC
BFI SMITHFIELD.....NC
PAJ BARTLETT .....TN
E GREENBRIER.....TN
TFZ CHARLOTTESVILLE.....VA
9.275/4.275 VTT MACON.....GA
NC WINSTON-SALEM .....NC
GZX CLEVELAND.....TN
9.30 /4.30 WH JENKINS.....KY
ZZD LOUISVILLE.....KY
WOR GREENSBORO .....NC
MNH CHARLESTON .....SC
DRL FISHERVILLE.....TN
GBI KNOXVILLE .....TN
EFK FALLS CHURCH.....VA
9.325/4.325 BA MARIETTA.....GA
T WYTHEVILLE/SAND.....VA
ZXP GLENVILLE .....WV
9.35 /4.35 Y VALDOSTA .....GA
CO HIGHLAND HEIGHTS ....KY
V GIBSONVILLE .....NC
BKY GALLATIN .....TN
DBB BEDFD/APL ORCH .....VA
9.375/4.375 IZF JASPER.....GA
QWU FANCY GAP.....VA
9.40 /4.40 UA AUGUSTA.....GA
ULJ HAMILTON.....GA
LU LAWRENCEVILLE .....GA
LTW MERIDIAN.....MS
YZF FAYETTEVILLE.....NC
YOG FOREST CITY.....NC
KOG MEMPHIS.....TN
EAJ OAK RIDGE .....TN
HON MADISON.....VA
ARO PETERSBURG .....VA
G ALDERSON.....WV
9.425/4.425 ISI ALTAVISTA .....VA
9.45 /4.45 DOC ATLANTA.....GA
LCL JACKSON .....MS
CQ CHARLOTTE .....NC
YTU BROWNSVILLE .....TN
KWP GALLATIN .....TN
J SODDY DAISY.....TN
MOP BLUEFIELD.....VA
ZOA FALLS CHURCH.....VA
9.475/4.475 CLA SWEAT MT/MARIETT....GA
9.50 /4.50 MM ALBANY .....GA
UWL ATLANTA.....GA
APA HENDERSON .....KY
MOP LOUISVILLE.....KY
ICX LEXINGTON .....NC
GYR SUMTER .....SC
LSP BRISTOL/HLST MT.....TN
KSL KNOXVILLE .....TN
HEX LYNCHBURG/TOBRMT .VA
ZAI MT. VERNON .....VA
Y BUCKHANNON .....WV
9.525/4.525 VF GRETHEL.....KY
MRS NEW HEBRON.....MS
PEN RALEIGH .....NC
DCD MYB BCH/BRKSVIL.....SC
PYI #SMITHVILLE.....TN
9.55 /4.55 JEH CONYERS.....GA
KQ LEWISPORT .....KY
VTE GASTONIA .....NC
VM ROANOKE RAPIDS .....NC
Y COOKEVILLE .....TN
O MCNAIRY.....TN
OGT HAMPTON.....VA
AF THE PENTAGON .....VA
9.575/4.575 AQG DOUGLASVILLE.....GA
MVY PHELPS .....KY
SD SALISBURY .....NC
WCK NASHVILLE .....TN
DE COLLINSVILLE.....VA
9.60 /4.60 KMS COVINGTON.....GA
NMC LOUISVILLE.....KY
CO CLINTON.....MS
BFB CHARLOTTE .....NC
RVS OXFORD .....NC
UDD NORTH CHARLESTON ..SC
HAP KNOXVILL/ENG MTN ...TN
JXI MEMPHIS.....TN
HFH ALEXANDRIA .....VA
SAD SINGERS GLEN.....VA
K WESTON.....WV
9.625/4.625 WQ ATLANTA.....GA
QFL HAWESVILLE .....KY
ZCD HICKORY FLAT.....MS
OCF RICHTON.....MS
DVN LUMBERTON.....NC
TK NASHVILLE .....TN
E BLUEFIELD.....VA
9.65 /4.65 IBW SMYRNA.....GA
ST HORN LAKE .....MS
MMB SALISBURY .....NC
NKM GREENEVILLE .....TN
MWQ #MCMINNVILLE/HF....TN
OYS SHORT MTN.....TN
ARO RICHMOND-ASHLAND .VA
9.675/4.675 EBZ NEWNAN .....GA
VYX PIKEVILLE.....KY
DIL CHARLOTTE .....NC
WGA JACKSONVILLE.....NC
JMT MYR BCH/CONWAY ....SC
PCD NASHVILLE .....TN
MIZ NORFOLK.....VA
9.70 /4.70 LUQ DALLAS.....GA
ELN VALDOSTA .....GA
AUN LOUISVILLE.....KY
Y JACKSON .....MS
YMY DENVER/CLT.....NC
JEH ROCKY MOUNT.....NC
WWB GATE CITY .....VA
LG MORGANTOWN .....WV
9.725/4.725 NFA WATKINSVILLE .....GA
QDK WINSTON-SALEM .....NC
RAV BLUFF CITY .....TN
AKM FRANKLIN.....TN
FO KEENY MTN.....WV
9.75 /4.75 EMM CONYERS.....GA
VZF STARKVILLE .....MS
TC HENDERSON .....TN
KQI FOREST .....VA
JYF TYSONS CORNER .....VA
BNW CHARLESTON .....WV
9.775/4.775 NEQ ATLANTA/MARIETTA ....GA
YHH KING/SAURATOWN M..NC
ATC RALEIGH .....NC
AKM GALLATIN .....TN
G PARKERSBURG .....WV
9.80 /4.80 ASI COVINGTON.....GA
BEJ ELIZABETHTOWN.....KY
J GREENVILLE.....NC
YEC REIDSVILLE/EDEN .....NC
RG GAFFNEY .....SC
JXI MEMPHIS.....TN
LP MORRISTOWN.....TN
MIC OILVILLE.....VA
G BECKLEY/KINGSTON ....WV
CUL MORGANTOWN .....WV
9.825/4.825 DOC ATLANTA .....GA
VXR #SALEM .....KY
DSN AMORY.....MS
UY MT AIRY/FSH PK.....NC
FC MEMPHIS/ADAMSMK .TN
BGK NASHVILLE.....TN
ZBP STAUNTON.....VA
9.85 /4.85 BZJ DALTON.....GA
UM MIDWAY.....GA
YUU LEXINGTON .....KY
NI NEBO.....KY
DU INDIANOLA .....MS
WRE POPLARVILLE.....MS
CQ CHARLOTTE .....NC
GMP WILMINGTON.....NC
NDQ NORTON/HIGH KNOB ..VA
ARO RICHMOND .....VA
KOU VIENNA .....VA
9.875/4.875 ELV CONYERS.....GA
BEC BALD CREEK .....NC
DW RALEIGH .....NC
LRD CHATTANOOGA .....TN
BOX JACKSON .....TN
AKM NASHVILLE.....TN
WTP BIG "A" MTN.....VA
9.90 /4.90 IVB CORBIN.....KY
YWH HIGHLAND HEIGHTS ....KY
D ACKERMAN.....MS
DWT ASHEVILLE.....NC
JMS NEW BERN .....NC
J WILSON.....NC
MMI RAMER.....TN
IDG WATERTOWN.....TN
TOU FANCY GAP.....VA
FQR WOODBRIDGE.....VA
9.925/4.925 NNO ATLANTA.....GA
PJR JESUP.....GA
MKG ASHLAND.....KY
WZH GLASGOW .....KY
PYQ SOUTHAVEN .....MS
TTE VICKSBURG.....MS
UMO #GREENVILLE.....NC
XRY MT. AIRY.....NC
BUH ANDERSON/SAS MT....SC
JMT GEORGETOWN .....SC
VIH DOVER.....TN
CLA PIGEON FORGE .....TN
BON ROANOKE/TINKER M ...VA
9.95 /4.95 I AUGUSTA.....GA
MU PERRY.....GA
EJA LEXINGTON .....KY
EYM WINONA .....MS
WXL DALLAS/CHARLOTTE ...NC
DW RALEIGH .....NC
PBC CHARLESTON .....SC
SJR BENTON/BEAN MT.....TN
GP CLARKSVILLE .....TN
NNE MEMPHIS.....TN
WRN STAUNTON.....VA
KXV VIRGINIA BEACH .....VA
CQV SO. CHARLESTON .....WV
9.975/4.975 YNZ ATLANTA.....GA
TVE BRUNSWICK .....GA
TAT ASHLAND.....KY
CWF NICHOLASVILLE .....KY
AGD JACKSON.....MS
VDI ASHEBORO .....NC
ZTJ POLKVILLE.....NC
LP MORRISTOWN.....TN
AKM NASHVILLE.....TN
AZJ PEARISBURG .....VA
2.10 /7.10 GYM COLUMBIA .....SC
3.375/8.375 HTA CHANTILLY.....VA
3.85 /8.85 YSV WALUSKA/PINE LOG ...GA
3.975/8.975 SDE WOODFORD .....VA
4.175/9.175 O WINCHESTER .....VA
4.225/9.225 JCE MANASSAS.....VA
4.60 /9.60 SJH SPRINGFIELD.....KY
4.725/9.725 KHP LORTON.....VA
4.775/9.775 KHP FAIRFAX.....VA
4.825/9.825 DOC ATLANTA.....GA
KHP SPRINGFIELD.....VA
4.875/9.875 DCS ARLINGTON.....VA
DCS WOODBRIDGE.....VA
4.925/9.925 TSC BLUEMONT.....VA
6.25 /1.25 GVK ALEXANDRIA .....VA
HEX LYNCHBURG.....VA
7.25 /ACON NEQ ATL/MARIETTA.....GA

920 MHZ

7.10 /9.10 BZJ DALTON.....GA
7.60 /9.60 CCF ALEXANDRIA .....VA
8.80 /0.80 LP MORRISTOWN.....TN
8.90 /0.90 TT ROANOKE .....VA
9.00 /1.00 OSI FOREST .....VA
9.10 /1.10 ZMS LYNCHBURG .....VA
0.25 /3.25 ZGA NASHVILLE.....TN

1270 MHZ

7.25 /9.25 EEW NASHVILLE.....TN
PPN #CHARLOTTE.....NC
0.60 /2.60 CCF ALEXANDRIA .....VA
2.40 /4.40 WXJ NASHVILLE.....TN
4.50 /6.50 ZOE NASHVILLE.....TN
1.02 /1.02 DBB ROANOKE/POOR MTN.VA
1.40 /1.40 DOC ATLANTA NORTH .....GA
1.95 /1.95 YMY CHARLOTTE .....NC
2.00 /2.00 KIN ATLANTA/BELL.....GA
MW MEMPHIS.....TN
S TYSONS CORNER .....VA
2.10 /2.10 LEW MCLEAN.....VA

SERA REPEATER INDEX LISTINGS BY CITY - BY STATE

GEORGIA REPEATERS

10 METERS

ALBANY	W4MM	29.58	29.68	N	L
ATL/MARIETTA	N4NEQ	29.54	29.64	D	L
DALTON	N4BZJ	29.58	29.68	*	AL

6 METERS

ATL/MARIETTA	N4NEQ	52.09	53.09	D	L
AUGUSTA	K4EDU	52.03	53.03	*	O
CARTERSVILLE	WB4AEG	52.07	53.07	*	PR
CONYERS	WB4JEH	52.55	53.55	*	
DALTON	N4BZJ	52.13	53.13	*	
#HIGH HOUSE MTN.	W4VWH	52.45	53.45	*	UNCOORD.
JULIETTE	KC4IIZ	52.43	53.43	N	
PINE LOG MT.	WB4UPC	52.05	53.05	N	L
PINE LOG MT.	KE4PN	52.29	53.29	D	L
VALDOSTA	KB0Y	52.89	53.89	*	

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	*	PL
ALBANY	W4MM	144.55	145.15	N	L
ALBANY	W4MM	146.10	146.70	N	A
ALBANY	W4MM	146.13	146.73	N	
ALBANY	W4MM	146.22	146.82	N	
ALBANY	W4MM	147.72	147.12	N	K
ALBANY	WB4TFW	147.75	147.15	N	
AMERICUS	WD4EBB	147.87	147.27	N	
ASHBURN	WD4EVD	147.885	147.285	D	P
ATHENS	WA4BKF	146.145	146.745	*	P
ATHENS/CRAWFORD	K4TQU	147.975	147.375	*	P
ATL/UNION CITY	WA4UPE	146.025	146.625	D	
ATLANTA	W4AQL	144.55	145.15	N	PEB
ATLANTA	K4DRQ	144.69	145.29	D	B
ATLANTA	W4DOC	144.75	145.35	N	
ATLANTA	W4DOC	144.75	145.35	N	
ATLANTA	WB4QGR	146.04	146.64	N	T
ATLANTA	W4DOC	146.22	146.82	D	EP
ATLANTA	K4CLJ	146.37	146.97	*	T
ATLANTA	WA4NNO	146.40	147.00	N	P
ATLANTA	K4YSB	147.705	147.105	N	Y
ATLANTA	K4JPD	147.795	147.195	*	T
ATLANTA	WD4KDT	147.855	147.255	*	BELP
ATLANTA/AIRPORT	W4REI	147.63	147.03	N	
ATLANTA/BELL	W4PME	144.81	145.41	*	BEP
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/MARIETTA	N4NFP	146.055	146.655	D	ABLRT118.8
ATLANTA/MARIETTA	N4NEQ	147.945	147.345	D	ELRP118.8
ATLANTA/SWEAT MTN	KD4NC	146.13	146.73	*	LK
AUGUSTA	W4TUN	144.51	145.11	N	A
AUGUSTA	N4TDL	144.69	145.29	*	
AUGUSTA	AA4UA	144.77	145.37	*	AB
#AUGUSTA	NA4I	144.81	145.41	*	UNCOORD.
AUGUSTA	W4DV	144.89	145.49	N	AB
AUGUSTA	N4MWQ	146.04	146.64	*	K
AUGUSTA	KT4N	146.34	146.94	N	
AUGUSTA	NA4I	146.385	146.985	*	BELP
AUGUSTA	NI4S	147.72	147.12	N	P
AUGUSTA	N4BMA	147.78	147.18	N	Y
BALDWIN	WD4NHW	147.78	147.18	D	A
BONAIRE	KM4DT	147.615	147.015	N	
BOSTON	W4UCJ	147.795	147.195	*	ABE
BRNSWK/JEKYLL IS	KB4PXX	144.81	145.41	*	
BRUNSWICK	K4TVE	146.13	146.73	N	A
CALHOUN/JASPER	KC4AQS	147.405	146.805	D	PLBR
CARROLLTON	W4FWD	146.04	146.64	*	BET131.8
CARTERSVILLE	N4GIS	146.415	147.015	*	BERP
CEDARTOWN	W4CMA	147.72	147.12	*	P
CHEAHA MTN (AL)	WB4GNA	147.69	147.09	*	
CLARKESVILLE	K4HCA	147.72	147.12	*	BEP
CLAYTON	WA4BLQ	144.65	145.25	*	
CLEVELAND/LONG	WB4HIG	146.31	146.91	D	A
COCHRAN	N4MXC	144.51	145.11	*	ABE
COLUMBUS	KA4CEK	144.71	145.31	N	
COLUMBUS	W4CVY	146.01	146.61	D	A
COLUMBUS	W4CVY	146.28	146.88	D	
CONYERS	WB4JEH	144.63	145.23	*	
CONYERS	WB4JEH	146.01	146.61	*	T151.4
CONYERS	N4EMM	147.81	147.21	D	PEB
COOLIDGE	N4JBF	144.57	145.17	N	PR
CORDELE	WA4RWS	144.89	145.49	D	
COVINGTON	WA4ASI	146.325	146.925	*	AL
COVINGTON	WA1KMS	147.87	147.27	*	
CUMMING/SAWNEEK	4BYK	147.75	147.15	D	PL
DAHLONEGA	N4KHQ	147.435	146.835	*	
DALLAS	K4DVJ	146.25	146.85	N	PE
DALLAS	WD4LUQ	147.495	146.895	*	BRT77.0
DALTON	KE4UJ	144.63	145.23	N	A
DALTON	N4BZJ	147.735	147.135	*	ABELRT100.
DECATUR	W4BOC	144.85	145.45	*	
DOUGLASVILLE	N4UOX	144.51	145.11	*	P
DOUGLASVILLE	WA4CLC	147.96	147.36	*	
DUBLIN	WA4HZX	147.96	147.36	N	A
EASTMAN	K4KEC	144.61	145.21	*	B
EATONTON	KC4YHM	147.69	147.09	*	ABEL
ELBERTON	N4UJT	146.025	146.625	N	
ELLIJAY/TALONA M	W4HHH	146.385	146.985	*	AB
FAYETTEVILLE	W4PSZ	144.61	145.21	D	PE
FAYETTEVILLE	K4UWN	146.085	146.685	D	
FOLKSTON	K4DMK	146.19	146.79	N	
#FORSYTH	W4STJ	147.315	147.915	N	UNCOORD.
FORSYTH	KB4KIN	147.765	147.165	D	PL
#FORT MTN.	N4YYD	144.625	145.525	D	UNCOORD.
GAINESVILLE	W4NSO	146.07	146.67	*	PET131.8
GRIFFIN	K4HYB	144.79	145.39	*	P
GRIFFIN	K4HYB	146.31	146.91	D	
HARTWELL	WA4RBS	146.295	146.895	*	B
HINESVILLE	KK4UV	144.87	145.47	*	AB
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	144.77	145.37	*	RPLB
JASPER	W4OOM	146.10	146.70	*	
JEFFERSON	KB4ZUN	147.825	147.225	N	
JESUP	WA4EQL	146.07	146.67	*	
JESUP	N4PJR	146.325	146.925	*	P
JESUP/SCREVEN	N4PJR	147.945	147.345	*	O
JONESBORO	WA4DIW	144.57	145.17	*	E
JONESBORO	WA4OGE	144.73	145.33	*	E
JULIETTE	KD4IEZ	146.205	146.805	D	ET100.0
KIBBEE	K4HVK	146.22	146.82	N	A
LAFAYETTE	KB4VAK	147.975	147.375	D	A
LAGRANGE	WB4BXO	147.93	147.33	N	
LAVONIA	K4NVG	146.115	146.715	*	BEPT100.0
LAWRENCEVILLE	WD4JXR	147.675	147.075	D	EP
MACON	WB4OLL	144.83	145.43	*	PLR
MACON	W4BKM	146.06	146.66	*	NBP
MACON	N3SM	146.295	146.895	*	AT123.0
MACON	WA4DDI	147.66	147.06	N	T
MADISON	WB4DKY	146.265	146.865	N	A
MARIETTA	K4LCI	144.83	145.43	N	E
MARIETTA	WA4QPL	144.89	145.49	*	PE
MARIETTA	N4NFP	146.175	146.775	D	BLRPT118.8
MARIETTA	W4IUD	146.28	146.88	D	
METTER	W4TYM	147.645	147.045	N	ABE
MIDWAY	KF4UM	147.615	147.015	*	O
MILLEDGEVILLE	KF4LT	144.55	145.15	*	PT
MILLEDGEVILLE	WB4DOJ	146.10	146.70	*	A
MILLEDGEVILLE	K4FRM	147.735	147.135	*	BL
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	BP
NEWNAN	K4SEX	146.19	146.79	*	BP
PEMBROKE	WB4CJB	147.675	147.075	N	A
PERRY	KB4KIN	146.355	146.955	D	PL
PERRY	AC4MU	147.90	147.30	*	ABER
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	N	
PRESTON	WB4TOV	146.385	146.985	N	
QUITMAN	W4FGH	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROCHELLE	WB4OQX	146.40	147.00	*	BET100.0
ROCKY TOP MT.	K5PRE	146.355	146.955	N	
ROME	WB4YSV	147.90	147.30	N	
ROME/MT. ALTO	W4VO	146.34	146.94	*	BP
ROSSVILLE	W4FGQ	144.75	145.35	*	
ROSWELL	N4CLA	147.66	147.06	D	PE
SANDERSVILLE	N4CGV	144.675	145.27	*	A
SAVANNAH	KK4TO	146.10	146.70	*	PE
SAVANNAH	W4HBB	146.28	146.88	N	AB
SAVANNAH	W4HBB	146.37	146.97	N	AB
SAVANNAH	KK4TO	147.81	147.21	*	PE
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
ST. MARYS	KA4UUB	146.385	146.985	N	
STATESBORO	NC4D	147.705	147.105	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
STONE MT.	W4BOC	146.16	146.76	*	
SUMMERVILLE	KA4LVY	147.825	147.225	D	A
SWAINSBORO	K4VYX	146.19	146.79	N	O
SWEAT MT/MARIETT.	N4CLA	144.87	145.47	D	PE
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	*	
THOMSON	KC4GSS	146.235	146.835	D	A
TOCCOA	KA4DIP	147.93	147.33	*	
TWIN CITY	N4REB	147.915	147.315	N	PR
VALDOSTA	KB0Y	144.53	145.13	*	T
VALDOSTA	N4ELN	146.16	146.76	*	BRPT52.525
VALDOSTA	KB0Y	147.735	147.135	*	PT
VIDALIA	KE4ZZ	146.025	146.625	*	A
WALESKA/PNLGMT.	KE4PN	144.67	145.27	D	L
WARM SPRINGS	KN4FE	146.385	146.985	N	BE
WARNER ROBINS	WB4BDP	146.01	146.61	D	A
WARNER ROBINS	WA4QWI	146.25	146.85	*	P
WARNER ROBINS	WB4BDP	147.78	147.18	N	C
WATKINSVILLE	N4NFA	147.645	147.045	N	RPEL
WAYCROSS	KD4CEX	146.04	146.64	*	A
WAYNESBORO	WD4COL	144.63	145.23	N	
WRENS	KB4NA	146.175	146.775	D	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	ABLR

220 MHZ

ACWORTH	N4MTA	222.72	224.32	*	EP
ALPHARETTA	KC4JNN	223.26	224.86	*	ABELRT100.
ATL/CHESTNUT MT.	W4DOC	222.96	224.56	N	L
ATL/MARIETTA	N4NEQ	222.84	224.44	N	BLRPT118.8
ATLANTA	N4BLR	222.68	224.28	N	
ATLANTA	W4DOC	222.74	224.34	D	
ATLANTA	W4DOC	222.96	224.56	N	
ATLANTA	KK4C	223.22	224.82	N	PLR
ATLANTA-NE	KC4OVY	222.60	224.20	*	BRPT100.0
ATLANTA/BELL	W4ZTL	223.02	224.62	*	BEP
ATLANTA/MARIETTA	N4NFP	222.52	224.12	D	ABLRT118.1
AUGUSTA	AA4UA	222.60	224.20	*	AB
AUGUSTA	WB4KXO	223.34	224.94	*	P
BALDWIN	WS4F	222.50	224.10	D	
BRUNSWICK	N3GLC	222.58	224.18	N	
CARTERSVILLE	N4GIS	223.00	224.60	*	BERP
CLAYTON	WD4MBK	223.12	224.72	D	
CLEVELAND	N4RBT	222.78	224.38	N	P
CONYERS	WB4JEH	222.54	224.14	*	
CUMMING	K4JSR	223.38	224.98	*	PL
DALLAS	N4YDX	222.58	224.18	*	BELP
DALLAS	N4YEA	222.94	224.54	*	BP
DALTON	N4BZJ	222.76	224.36	*	ABT88.5
DALTON	N4BZJ	223.08	224.68	N	
DALTON	N4KVC	223.14	224.74	*	ER
ELLIJAY-BUCK MTN.	N4YYD	222.64	224.24	D	BERP
HIRAM	KC4PZD	223.10	224.70	*	B
HIRAM	N4TJG	223.36	224.96	D	ABL
MACON	W4BKM	223.06	224.66	*	
MARIETTA	N4NEQ	222.62	224.22	N	L
MARIETTA	KV4L	222.66	224.26	N	BP
MARIETTA	N4MTA	222.90	224.50	*	BEP
MARIETTA	WA4QPL	223.30	224.90	*	PE
NORCROSS	KB4PRH	222.88	224.48	N	
PERRY	AC4MU	223.24	224.84	*	ABER
RINGGOLD	W4ABZ	223.04	224.64	N	P
ROCKMART	KC4KLW	223.18	224.78	*	
ROME	WB4YSV	222.82	224.42	N	
ROSSVILLE	KC4EV	223.34	224.94	N	
SASAFRAS MTN.	KC4JNN	222.56	224.16	*	ABELRT100.
STONE MT.	W4BOC	223.16	224.76	*	
TEMPLE	KC4NYV	222.70	224.30	N	B
THOMASVILLE	N4JBF	222.72	224.32	N	AL
VALDOSTA	KB0Y	222.86	224.46	*	PT
WALESKA/PNLGMT.	N4KSM	222.92	224.52	D	A
YORKVILLE	WB4UPC	223.28	224.88	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	N	V
ALBANY	W4MM	449.50	444.50	N	
ALPHARETTA	WB6RTH	447.00	442.00	*	ABEKL
ATHENS	NB4X	448.30	443.30	N	
ATLANTA	W4DOC	444.825	449.825	N	NB
ATLANTA	WA4YNZ	447.975	442.975	*	TPL
ATLANTA	KE4ZV	448.65	443.65	*	T118.8
ATLANTA	KD4LXT	448.875	443.875	*	C-BEP
ATLANTA	W4DOC	449.45	444.45	N	
ATLANTA	W4DOC	449.45	145.67	N	R
ATLANTA	WB4UWL	449.50	444.50	*	
ATLANTA	N4WQ	449.625	444.625	N	AO
ATLANTA	W4DOC	449.825	444.825	N	
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	*	PTLR
#ATLANTA/BELL	W4ZTL	434.00	421.25	*	UNCOORD.
ATLANTA/BELL	W4ZTL	449.15	444.15	*	BEP
ATLANTA/MARIETTA	N4NFP	448.80	443.80	D	BLRPT118.8
ATLANTA/MARIETTA	N4NEQ	449.05	444.05	D	BT118.8
ATLANTA/MARIETTA	N4NEQ	449.775	444.775	D	ABLRP118.8
ATLANTA/STONE MT.	W4BOC	449.25	444.25	*	
ATLANTA/SWEAT MT.	WA4NMF	447.725	442.725	N	T
AUGUSTA	AA4UA	449.40	444.40	*	AB
AUGUSTA	NA4I	449.95	444.95	*	
BALDWIN	WD4NHW	447.35	442.35	N	
BRNSWK/JEKYLL IS.	KB4PXX	439.25	421.25	*	V
BRUNSWICK	KD4CPO	448.425	443.425	N	A
BRUNSWICK	K4TVE	449.975	444.975	N	O

MORE GEORGIA REPEATERS

CALHOUN/JASPER	KC4AQS	448.375	443.375	D	BP
CHATSWORTH	N4OGF	448.00	443.00	N	
CLARKESVILLE	K4HCA	447.425	442.425	*	B
CONYERS	WB4JEH	447.55	442.55	*	T151.4
CONYERS	WB4JEH	449.55	444.55	*	T151.4
CONYERS	N4EMM	449.75	444.75	N	PL
CONYERS	KC4ELV	449.875	444.875	*	BLP
COVINGTON	KL7TF	448.75	443.75	D	B
COVINGTON	KD4QOW	449.175	444.175	*	BEP
COVINGTON	WA1KMS	449.60	444.60	*	
COVINGTON	WA4ASI	449.80	444.80	*	ALT88.5
DACULA	KK4IN	448.55	443.55	D	ALR
DALLAS	WD4LUQ	449.70	444.70	*	BRT77.0
#DALTON	N4BZJ	447.175	442.175	*	UNCOORD.
DALTON	N4BZJ	449.85	444.85	*	
DECATUR	N3APR	447.20	442.20	N	A
DECATUR	KA4UFM	448.95	443.95	*	BPT110.9
DECATUR	WB4LBM	449.20	444.20	N	
DOUGLASVILLE	N4AQG	449.575	444.575	*	B
DULUTH	N2NOG	447.30	442.30	N	BELP
DUNWOODY	W4QO	447.15	442.15	N	
DUNWOODY	W4QO	448.15	443.15	N	
EATONTON	KC4YHM	447.925	442.925	*	
ELLIJAY	W4HHH	447.70	442.70	*	C
ELLIJAY-BUCK MTN.	N4YYD	448.35	443.35	D	BEORP
GAINESVILLE	W4NSO	447.625	442.625	*	PET131.8
GRIFFIN	WB4DEB	448.90	443.90	N	PT
HAMILTON	WB4ULJ	449.40	444.40	N	BPR
HAMPTON	WB4DEB	448.125	443.125	N	
HAMPTON	N4RDM	448.40	443.40	N	PRP
HIGH HOUSE MTN	KD4APP	448.20	443.20	*	
HIGH PT/LOOKT MT	KB4VAK	448.45	443.45	D	ABRT88.5
JASPER	KB4MDE	448.425	443.425	N	
JASPER	KB4IZF	449.375	444.375	*	BPLR
JESUP	N4PJR	449.925	444.925	*	O
JONESBORO	N4QCP	448.225	443.225	N	
LAVONIA	K4NVG	447.475	442.475	*	PB
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
LAWRENCEVILLE	KC4LU	449.40	444.40	*	BT
MACON	K4VTT	447.275	442.275	*	ABELRT100.
MACON	N4IWK	447.875	442.875	*	P
MACON	W4BKM	449.10	444.10	*	C
MACON	K4VTT	449.275	444.275	N	
MARIETTA	WB4BQX	448.50	443.50	*	BEP
MARIETTA	KM4BA	448.60	443.60	N	PT
MARIETTA	KM4BA	448.70	443.70	N	
MARIETTA	KM4BA	449.325	444.325	N	PTO
MIDWAY	KF4UM	449.85	444.85	*	O
MILLIDGEVILLE	N4EMM	447.75	442.75	N	RP
NEWNAN	N4EBZ	449.675	444.675	D	P
PERRY	AC4MU	449.95	444.95	*	
RINGGOLD	WA4LJU	448.925	443.925	N	
ROCKMART	KC4KLW	448.275	443.275	*	ABT179.9
ROCKMART	KC4KLW	448.525	443.525	*	
ROCKY FACE	AA4EO	447.175	442.175	N	
ROSSVILLE	N4PLP	447.125	442.125	N	C
SAVANNAH	WA4VHP	439.25	426.25	*	BRTV
SAVANNAH	KC4AZU	447.70	442.70	*	C
SAVANNAH	WD4AFY	449.00	444.00	N	B
SMYRNA	N4IBW	449.65	444.65	N	
STOCKBRIDGE	N4JMD	448.325	443.325	N	PTL
STOCKBRIDGE	N4JMD	448.325	443.325	N	PTR
STONE MT.	N4MSE	449.025	444.025	N	
SWEAT MT/MARIETT.	N4CLA	449.475	444.475	N	EP
VALDOSTA	KB0Y	449.35	444.35	*	PT
VALDOSTA	N4ELN	449.70	444.70	*	T
WALESKA/PNLOG MT	WB4YSV	448.85	443.85	D	L
WALUSKA/PINE LOG	WB4YSV	443.85	448.85	N	NB
WARM SPRINGS	N4UER	447.40	442.40	N	BE
WATKINSVILLE	N4NFA	449.725	444.725	N	RPEL

920 MHZ

DALTON	N4BZJ	907.10	919.10	*	

1270 MHZ

ATLANTA NORTH	W4DOC	1271.40	1291.40	N	
ATLANTA/BELL	KB4KIN	1272.00	1292.00	*	

BEACONS

ATL/MARIETTA	N4NEQ	427.25	BEACON	D	VR

SERA REPEATER SYMBOLS

*	Full Member Supporter	M	T-MARC Terr. Repeater
D	Delinquent Membership	NB	Not on SERA Freq. Plan
N	Non-Member SERA	O	Off the Air Temporarily
A	Autopatch (Open)	P	Private Autopatch
B	Emergency Power	PR	Proposed Coordination
C	Under Construction	R	Remote Base System
E	Emergency Autopatch	T	Tone Accessed
K	Packet Operation	V	Television (SSTV/ATV)
L	Linked Repeater	Y	RTTY Operation

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but it does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K". For tone-accessed repeaters, the codes column contains the tone or access code only for those repeaters which the owner or trustee has given us written permission to publish.
Entries with "#" in front of the city indicate repeaters added to this index that have not been coordinated through the local SERA state coordinator. Work with your coordinator to get this indicator removed.

KENTUCKY REPEATERS

6 METERS

GUTHRIE	KA4ZKL	52.23	53.23	N	C
LOUISVILLE	WB4LBR	53.025	52.025	N	NB
STANTON	WD4KNE	52.81	53.81	N	P

2 METERS

ASHLAND	KD4SN	146.34	146.94	*	P
ASHLAND	KA4DII	147.84	147.24	N	P
ASHLAND	WA8KWH	147.93	147.33	N	A
BARDSTOWN	WB4GGH	144.87	145.47	*	
BAXTER	WM4H	147.78	147.18	N	A
BENTON	WG4U	147.72	147.12	N	
BEREA	KI4B	146.115	146.715	N	
BOWLING GREEN	WD4MNI	146.055	146.655	*	R
BOWLING GREEN	KA4CLL	146.25	146.85	N	
CALVERT CITY	KA4KFD	147.705	147.105	N	AB
CAMPBELLSVILLE	WA4UXJ	146.04	146.64	N	
CLARKSON	N4PXK	144.89	145.49	N	
CORBIN	WD4KWV	146.01	146.61	*	P
COVINGTON	WB8NON	144.81	145.41	*	O
COVINGTON	WB8NON	147.99	147.39	*	A
DANVILLE	WD4DJC	146.055	146.655	N	A
#DAWSON SPRINGS	N4STY	146.13	146.73	N	UNCOORD.
DEANE	AK4U	144.61	145.21	N	L
DIXON	N4IOX	147.855	147.255	*	P
DORTON	WA4SWF	146.13	146.73	D	BR-O
ELIZABETHTOWN	W4BEJ	146.38	146.98	D	ABL
ELKHORN CITY	WB4WAU	147.60	147.00	N	
ERLANGER	N4BOP	144.61	145.21	N	
FAIR DEALING	N4AVE	147.84	147.24	N	
#FERN CREEK	WB4NSY	146.16	146.76	N	UNCOORD.
FLORENCE	K4JBV	146.295	146.895	*	A
FRANKFORT	KC4KDZ	144.79	145.39	*	BEP
FRANKFORT	K4NGQ	147.075	147.675	N	
FRANKFORT	KC4AI	147.84	147.24	N	
GEORGETOWN/LXTNG	WD8PRH	144.63	145.23	*	L
GLASGOW	KF4DC	144.81	145.41	N	
GLASGOW	W4WZH	146.34	146.94	D	AB
GRAYSON	KF4JO	146.10	146.70	N	
GREENVILLE	WA4TTC	146.145	146.745	N	P
GRETHEL	KJ4VF	147.645	147.045	N	C
GUTHRIE	KA4NNE	146.205	146.805	D	L
HALLS GAP	WD8PRH	144.57	145.17	*	AL
HARLAN	WA4ZAC	147.69	147.09	N	
HAZARD	K4VHF	146.07	146.67	*	B
HENDERSON	W4KVK	144.89	145.49	N	
HENDERSON	K4DPP	146.37	146.97	N	
HIGHLAND HEIGHTS	W4YWH	146.19	146.79	*	
HIGHLAND HEIGHTS	K4CO	147.855	147.255	*	PT123.0
HOPKINSVILLE	WA4ZVL	147.63	147.03	D	A
IRVINGTON	WB4WVH	146.30	146.90	D	AE
LA GRANGE	N4RBL	144.53	145.13	*	BT151.4
LA GRANGE	N4RBL	147.99	147.39	*	T151.4
LANCASTER	AC4AO	146.13	146.73	*	
LAWRENCEBURG	KK4PL	144.69	145.29	N	A
LEXINGTON	N4YUU	144.73	145.33	N	P
LEXINGTON	KC4TX	144.85	145.45	N	P
LEXINGTON	K4KJQ	146.16	146.76	N	PE
#LEXINGTON	W4AUZ	146.34	146.94	N	UNCOORD.
LEXINGTON	WB4FDK	147.615	147.015	N	
LEXINGTON	WA4HBM	147.765	147.165	N	
LITCHFIELD	KB4NFK	147.825	147.225	*	
LONDON	KC4ZFH	147.885	147.285	N	CT
LOUISVILLE	W4BDC	146.10	146.70	*	BEP
LOUISVILLE	W4OAU	146.28	146.88	*	P
LOUISVILLE	W4PJZ	147.63	147.03	*	BERPT151.4
LOUISVILLE	N4NMC	147.67	147.07	*	BEP
LOUISVILLE	W4CN	147.78	147.18	*	PE
LOUISVILLE	N4KWT	147.87	147.27	N	
LOUISVILLE	KQ9Z	147.96	147.36	D	A
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MARION	KA4FGA	147.705	147.105	N	
MARION	KA4FGA	147.885	147.285	N	
MAYFIELD	WA4NAR	147.84	147.24	N	
MAYSVILLE	WA4WMM	144.87	145.47	*	BEP
MAYTOWN	AK4U	146.28	146.88	N	PLR
MIDDLESBORO	W4PPM	146.175	146.775	N	
MONTICELLO	N4TLK	144.55	145.15	*	C
MOREHEAD	KJ4VF	144.53	145.13	N	CR
MOREHEAD	K4GFY	146.31	146.91	N	
MT. STERLING	WD4KNE	147.93	147.33	D	P
MUHLENBERG CNTY	WF4N	146.22	146.82	N	BP
MURRAY	WB4NTB	146.34	146.94	D	A
NICHOLASVILLE	WB4CWF	144.89	145.49	N	PE
OWENSBORO	KN4KQ	146.085	146.685	*	ALR
OWENSBORO	K4HY	147.81	147.21	N	AL
OWINGSVILLE	N4TLP	147.675	147.075	N	A
OXFORD/LEXINGTON	WD8PRH	144.63	145.23	*	AL
PADUCAH	K4CUW	146.16	146.76	N	
PADUCAH	W4WQ	147.66	147.06	N	
PAINTSVILLE	AK4U	146.19	146.79	N	PL
PAINTSVILLE	K4ICN	147.735	147.135	*	RL
PHELPS	KJ4YK	147.69	147.09	*	R
PIKEVILLE	N4IWZ	144.55	145.15	*	RPE
PIKEVILLE	KM4IV	146.25	146.85	N	ELR
PRESTONSBURG	WB4UBY	147.765	147.165	N	
PRESTONSBURG	AK4U	147.90	147.30	N	ERC
PRINCETON	W4KBL	146.07	146.67	N	
PROVIDENCE	N4IUI	147.93	147.33	N	
RABBIT HASH	WA4OCP	146.355	146.955	N	
RADCLIFF	W4BEJ	146.325	146.925	D	ABL41
RICHMOND	AC4UW	146.265	146.865	*	AB
SALEM	N4IL	147.915	147.315	*	P
SALVISA	KC4ZOX	146.235	146.835	*	C
SCOTTSVILLE	KJ4GL	144.65	145.25	N	ACT100.0
SHELBYVILLE	KE4LR	147.60	147.00	D	BP
SOMERSET	N4AI	146.28	146.88	*	BL
SPRINGFIELD	WA4SJH	147.90	147.30	N	A
STANTON	WD8PRH	144.69	145.29	N	CL
STANTON	KC4TUK	146.37	146.97	*	ARC
UNION CITY (TN)	WA4YGM	146.10	146.70	*	
VANCEBURG	KC4TKI	146.175	146.775	*	P
WALTON	K4CO	147.975	147.375	*	
#WHTSBRG/PINE MT	WD4PDJ	147.99	147.39	N	UNCOORD.
WILLIAMSBURG	KG4M	147.60	147.00	N	
WINCHESTER	WB4ASZ	147.72	147.12	*	EP

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
AUGUSTA	KC4UXD	222.32	223.92	N	PC
JARVIS	KB4PNG	223.38	224.98	*	ABELR
LEXINGTON	WB8VMI	222.14	223.74	*	
LEXINGTON	AC4AO	222.82	224.42	*	ABEL
LEXINGTON	N4YUU	223.34	224.94	N	
LOUISVILLE	KA4MKT	222.70	224.30	N	
#LOUISVILLE	KB4VEZ	222.82	224.42	N	UNCOORD.
LOUISVILLE	W4MOP	223.22	224.82	N	P
PIKEVILLE	WB4F	222.98	224.58	N	
PIKEVILLE	KD4DAR	223.02	224.62	*	R
SOMERSET	N4AI	222.70	224.30	*	BER
SOMERSET	N4AI	223.28	224.88	*	BL
VERSAILLES	KN4QP	222.62	224.22	*	BERP

440 MHZ

ASHLAND	KA4MKG	449.925	444.925	N	C
ASHLAND	WB4TAT	449.975	444.975	*	
BOWLING GREEN	N5KOL	448.80	443.80	N	CP
BOWLING GREEN	WD4MNI	449.10	444.10	*	AL
CORBIN	WB4IVB	449.90	444.90	*	R
DORTON	KJ4VF	448.25	443.25	N	CR
ELIZABETHTOWN	KE4NS	439.250	421.250	D	V
ELIZABETHTOWN	W4BEJ	449.80	444.80	D	ABL
GLASGOW	W4WZH	449.925	444.925	D	
GLASGOW/CVCTY.	KF4DC	449.25	444.25	N	
GRETHEL	KJ4VF	449.525	444.525	N	
HAWESVILLE	KB4QFL	449.625	444.625		P
HENDERSON	N9APA	449.50	444.50	N	
HIGHLAND HEIGHTS	K4CO	449.35	444.35	*	PT123.0
HIGHLAND HEIGHTS	W4YWH	449.90	444.90	*	
JENKINS	KK4WH	449.30	444.30	N	PLRC
LATONIA	AA4XV	447.40	442.40	N	PT
LEWISPORT	KN4KQ	449.55	444.55	*	ALR
LEXINGTON	N4YUU	449.85	444.85	N	
LEXINGTON	WD4EJA	449.95	444.95	N	
LOUISVILLE	N4ORL	447.00	442.00	N	RP
LOUISVILLE	N4KWT	447.225	442.225	N	
LOUISVILLE	KB4YJ	447.725	442.725	N	BET
LOUISVILLE	WD9EQC	448.50	443.50	N	
#LOUISVILLE	KA4WTT	449.10	444.10	*	UNCOORD
LOUISVILLE	WB4IZD	449.30	444.30	N	
LOUISVILLE	W4MOP	449.50	444.50	N	P
LOUISVILLE	N4NMC	449.60	444.60	*	BEP
LOUISVILLE	WA4AUN	449.70	444.70	N	
LOUISVILLE AREA	N4RBL	447.45	442.45	*	BEPT151.4
LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

MORE KENTUCKY REPEATERS

MAYTOWN	AK4U	449.20	444.20	N	L
META	WB4UBY	448.50	443.50	N	R
NEBO	AA4NI	449.85	444.85	N	C
NICHOLASVILLE	WB4CWF	449.975	444.975	N	CR
OAK LEVEL	NN2E	449.20	444.20	D	T173.8
OWENSBORO	WB4AOH	439.25	427.25	N	V
PHELPS	N4MVY	449.575	444.575	N	
PIKEVILLE	KC4VYX	449.675	444.675	N	
#SALEM	KC4VXR	449.825	444.825	*	UNCOORD.
SPRINGFIELD	WA4SJH	444.60	449.60	N	
STANTON	N4VOS	447.075	442.075	N	CRP
UNION	KC4COV	449.175	444.175	*	AR

MISSISSIPPI REPEATERS

10 METERS

POPLARVILLE	WA5WRE	29.52	29.62	*	O

6 METERS

ELLISVILLE	N5DWU	52.01	53.01	D	

2 METERS

ABERDEEN	WB5USN	147.87	147.27	N	A
ACKERMAN	NO5N	147.72	147.12	N	
AMORY	KB5DWX	146.34	146.94	N	A
AMORY	KB5DSN	147.69	147.09	N	
BAY ST. LOUIS	K5GY	146.10	146.70	N	
BAY ST. LOUIS	K0VNO	146.25	146.85	N	
BILOXI	KC5IF	146.13	146.73	*	APER
BILOXI	K5TYP	146.19	146.79	N	AB
BOONEVILLE	WB5UVT	144.59	145.19	N	AB
BUDE	K5JMD	146.25	146.85	N	
CHATAWA	WB5GOJ	144.71	145.31	N	PR
CLEVELAND	K5BWW	146.25	146.85	N	
CLINTON	AA5JC	147.945	147.345	N	PR
COLUMBIA	KB5EZN	147.885	147.285	N	P
COLUMBUS	KA5LVU	144.83	145.43	N	A
COLUMBUS	N5NKZ	147.60	147.00	N	A
CORINTH	KA5RPB	144.29	145.39	N	A
CORINTH	WB5VOJ	146.325	146.925	N	
CORINTH	K5UFH	146.40	147.00	N	
CORINTH	KB4CTS	147.885	147.285	N	
D'IBERVILLE	KC5IF	144.81	145.41	*	APER
ELLISVILLE	N5DWU	147.465	146.865	D	PLT
ESCATAWPA	W5OXA	147.825	147.225	N	L
FULTON	N5VGK	144.89	145.49	N	A
GREENVILLE	WA5MBA	146.22	146.82	N	A
GREENWOOD	KA5TQY	146.115	146.715	N	
GRENADA	WB5LVA	146.10	146.70	N	
GULFPORT	KA5CYR	144.73	145.33	*	ABE
GULFPORT	KA5VFU	147.975	147.375	*	L
HATTIESBURG	KA5NNX	144.77	145.37	N	
HATTIESBURG	W5CJR	147.96	147.36	*	
HERNANDO	K5VV	146.31	146.91	N	A
HORN LAKE	KA0BRN	144.57	145.17	N	EPT
INVERNESS	WA5UDQ	147.78	147.18	N	
ISOLA	KC5OB	146.355	146.955	*	
IUKA	WB5MFK	146.25	146.85	N	A
JACKSON	N5NIL	146.04	146.64	*	
JACKSON	W5AXQ	146.16	146.76	*	
JACKSON	K5QNE	146.28	146.88	*	ABE
JACKSON	KA5SBK	146.34	146.94	N	BET100.0
JACKSON	NC5Y	147.675	147.075	N	AT
JACNITO	WB5HKK	147.75	147.15	N	A
KOSCIUSKO	W5LWC	146.25	146.85	N	
LAUREL	KB5IXI	146.01	146.61	*	P
LAUREL	WV5D	146.43	147.03	N	
LAUREL	KC5RC	147.855	147.255	N	
LOUISVILLE	KB5PKU	147.96	147.36	*	A
MAGEE	KA5LNY	147.90	147.30	*	
MCCOMB	K5JMD	146.34	146.94	N	A
MCHENRY	KA5CYR	147.93	147.33	*	B
MENDENHALL	K5HYE	144.51	145.11	*	B
MERIDIAN	W5DEJ	146.10	146.70	*	A
MERIDIAN	KA5MJM	146.37	146.97	N	RP
MONTICELLO	N5JHK	147.615	147.015	N	PR
MOOREVILLE	WB5NAY	146.04	146.64	N	A
NATCHEZ	W5KHB	146.085	146.685	D	
NATCHEZ	K5OCM	146.31	146.91	N	A
NATCHEZ	K5SVC	147.96	147.36	N	
NEW ALBANY	N5CAX	146.07	146.67	N	AB
NEW HEBRON	N5MRS	147.69	147.09	N	AEATLRB
OCEAN SPRINGS	W5LDD	147.63	147.03	*	AB
OLIVE BRANCH	KA5WMH	144.75	145.35	N	C
PASCAGOULA	W5WA	144.51	145.11	*	
PASCAGOULA	N5AAY	146.28	146.88	N	A
PASCAGOULA	KI5ZH	146.37	146.97	*	
PEARL/RANKIN CO.	KF5IZ	147.75	147.15	N	ABET88.5
PETAL	N5LRQ	147.735	147.135	*	O
PHILADELPHIA	N5EPP	147.93	147.33	D	
PICAYUNE	K5LFP	144.55	145.15	N	A
PONTOTOC	WB5NAY	147.98	147.38	N	
POPLARVILLE	WA5WRE	144.61	145.21	*	A
PORT GIBSON	KE5WO	146.025	146.625	N	
PRENTISS	WB5UNA	147.99	147.39	N	
RICHTON	N5OCF	147.66	147.06	*	
SENATOBIA	KB5DMT	146.385	146.985	N	
SOUTHAVEN	N5PYQ	144.77	145.37	N	O
STARKVILLE	W5VZF	146.13	146.73	*	
STARKVILLE	KF5C	146.205	146.805	N	P
TUPELO	AI5R	147.84	147.24	N	A
VICKSBURG	WJ5L	144.69	145.29	N	
VICKSBURG	WB5SXK	147.87	147.27	N	
WALLS	N5NBG	144.67	145.27	*	PT162.2
WARSAW	N4DRL	147.825	147.225	D	
WATER VALLEY	WB5QFX	146.40	147.00	N	
WAYNESBORO	N5HXG	147.705	147.105	N	PR
WEST POINT	KO5S	146.19	146.79	N	A
WIGGINS	KB5DZJ	144.67	145.27	*	ABL
WINFIELD (AL)	KC4RNF	147.64	147.04	*	NB
WINONA	N5DHS	146.37	146.97	N	A

220 MHZ

ACKERMAN	NM5D	223.18	224.78	N	
ACKERMAN	NM5D	223.22	224.82	N	
BAY ST. LOUIS	K0VNO	223.28	224.88	N	
BILOXI	K5TYP	222.90	224.50	N	
ELLISVILLE	N5DWU	222.80	224.40	N	PL
GLEN	KA5RPB	223.92	224.52	N	
PASCAGOULA	W5WA	222.72	224.32	*	
PONTOTOC	KE5ST	223.30	224.90	N	

440 MHZ

ACKERMAN	NM5D	448.65	443.65	N	
ACKERMAN	NM5D	449.90	444.90	N	
AMORY	KB5DSN	449.825	444.825	N	
CLERMONT HARBOR	WD5BJT	449.15	444.15	N	AL
CLINTON	KB5CO	449.60	444.60	*	
ELLISVILLE	N5DWU	448.90	443.90	N	AE
GAUTIER	KA5NOJ	439.25	426.25	*	V
GULFPORT	KA5CYR	449.25	444.25	*	ABE
HATTIESBURG	N5LRQ	448.55	443.55	*	
HICKORY FLAT	W4ZCD	449.625	444.625	N	
HORN LAKE	KE5ST	449.65	444.65	N	
INDIANOLA	AB5DU	449.85	444.85	N	
JACKSON	KB5II	449.00	444.00	*	
JACKSON	KB5LCL	449.45	444.45	N	T141.3
JACKSON	NC5Y	449.70	444.70	N	
JACKSON	KA5AGD	449.975	444.975	N	
LAUREL	AJ0X	448.50	443.50	D	ABER
MENDENHALL	K5HYE	448.60	443.60	*	B
MERIDIAN	WA5WUX	449.10	444.10	N	PEL
MERIDIAN	KB5LTW	449.40	444.40	N	BER
NATCHEZ	N5IAT	448.80	443.80	N	A
NEW ALBANY	WB5YCR	449.15	444.15	N	O
NEW HEBRON	N5MRS	449.525	444.525	N	A
POPLARVILLE	WA5WRE	449.85	444.85	*	
RICHTON	N5OCF	449.625	444.625	*	RP
SOUTHAVEN	N5PYQ	449.925	444.925	N	
STARKVILLE	W5VZF	449.75	444.75	*	PR
VICKSBURG	WB5TTE	449.925	444.925	N	PR
WINONA	N5EYM	449.95	444.95	N	

NORTH CAROLINA REPEATERS

10 METERS

BALD CREEK	N1BEC	29.56	29.66	N	
NEWPORT	K4GRW	29.56	29.66	N	PR
THOMASVILLE	KK4VO	29.58	29.68	*	PR
WILKESBORO	KC4XE	29.52	29.62	*	L
WILSON	WD4IDA	29.54	29.64	*	C
WILSON	WB4IUY	29.58	29.68	N	

6 METERS

BALD CREEK	N1BEC	52.03	53.03	N	
BOONE/RICH MTN.	WA4PXV	52.05	53.05	*	BLR
GASTONIA	N4XTF	52.11	53.11	N	
MARS HILL	WB4PLA	52.09	53.09	*	C
NEWPORT	K4GRW	52.01	53.01	N	PR
RALEIGH	WA4PEN	52.03	53.03	D	O
RALEIGH/BUTNER	WB4RZF	52.25	53.25	N	C
ROCKY MOUNT	N4YTU	52.59	53.59	N	
SAURATOWN MT.	N4QLX	52.21	53.21	N	
STATESVILLE	WA4WRS	52.67	53.67	D	C
#THOMASVILLE	K4AZA	52.04	52.04	*	UNCOORD.
THOMASVILLE	K4AZA	52.17	53.17	*	
THOMASVILLE	K4AZA	52.525	52.525	*	RB
WILSON	WB4IUY	52.07	53.07	N	

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	D	A
AHOSKIE	WA4ZGQ	146.31	146.91	*	P
ALBEMARLE	K4OGB	146.385	146.985	*	A
ANDREWS/ROBBINSV	K4AIH	146.445	147.045	*	BELP
AQUADALE	WA4CHZ	147.99	147.39	*	A
ASHEBORO	KJ4AV	147.855	147.255	*	PL
#ASHEVILLE	WB4PLA	146.235	146.835	N	UNCOORD.
ASHEVILLE	N4OOC	147.825	147.225	*	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	T151.4
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	*	A
BAKERSVILLE	KC4WPM	144.71	145.31	*	ABE
BALD CREEK	N1BEC	147.645	147.045	N	
BEULAVILLE	N4VBH	144.63	145.23	*	A
BOONE/RICH MTN.	WA4KDB	147.96	147.36	*	A
BREVARD	K4GBH	147.735	147.135	D	P
BURGAW	W4DLH	146.34	146.94	D	
BURLINGTON	WA4YGD	146.07	146.67	*	AB
BURLINGTON	KD4JFN	147.675	147.075	N	BE
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	AEKP
CHARLOTTE	W4BFB	144.63	145.23	*	
CHARLOTTE	W4BFB	144.69	145.29	*	A
CHARLOTTE	WA4AOS	144.75	145.35	N	L
CHARLOTTE	W4BFB	146.34	146.94	*	A
CHARLOTTE	W4CQ	146.46	147.06	*	A
CHARLOTTE	WD4PLY	147.99	147.39	N	P
CHERRY MT.	WA4BKU	146.07	146.67	*	O
CHERRYVILLE	K4JTX	144.91	145.11	*	
CLINTON	WA4LZD	146.19	146.79	N	
COLUMBIA	KB4TOH	144.51	145.11	N	ABEL
CONCORD/KANNAP.	K4CEB	146.055	146.655	*	PB
CROWDERS MT/GASTWD4PLY		144.85	145.45	N	
DUNN	N4CID	146.10	146.70	*	P
DURHAM	WA4WTX	144.85	145.45	D	AL
DURHAM	WA4BFT	146.34	146.94	N	A
DURHAM	WD4LDB	147.96	147.36	D	A
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WA4FLR	146.445	147.045	N	Y
FAYVLLE/CFARS	WB4YZF	146.31	146.91	D	P
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	*	
FOREST CITY	K4PBG	147.84	147.24	*	AT123.0
FRANKLIN	W4ZCZ	144.89	145.49	N	
FRANKLIN	W4GHZ	147.84	147.24	*	T151.4
GAST/SPCR MT.	W4REW	147.72	147.12	*	A
GASTONIA	N0IZF	146.205	146.805	D	ABELR
GIBSONVILLE	AC4DZ	144.89	145.49	*	ART103.5
GOLDSBORO	K4CYP	146.25	146.85	*	PT
GREENSBORO	KC4SJE	144.65	145.25	*	BEP
GREENSBORO	N4GGD	144.69	145.29	*	RP
GREENSBORO	N4QAA	144.71	145.31	N	AER
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	N4GGD	146.16	146.76	*	BEPR
GREENSBORO	W4GG	147.63	147.03	*	PL
GREENSBORO	W4BUZ	147.81	147.21	N	B
GREENVILLE	WD4JPQ	144.75	145.35	*	ABEL
#GREENVILLE	KC4UMO	147.905	147.305	N	UNCOORD.
GREENVILLE	K4ROK	147.975	147.375	*	A
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	*	
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW	MWA4KNI	144.67	145.27	*	A
HENDSVL/PENIC/MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	D	
HIGH POINT	N4XO	144.81	145.41	D	A
HIGH POINT	N4NNR	147.435	146.835	*	PL
HIGH POINT	WA4RIS	147.765	147.165	D	P
HILLSBOROUGH	WA4WTX	147.825	147.225	D	AL
JACKSONVILLE	WA4WGA	144.59	145.19	*	B
[illegible]SONVILLE	WD4FVO	146.40	147.00	D	AE
JEFFERSON	W4YJG	147.90	147.30	*	A
KINSTON	W4OIX	144.87	145.47	*	A
LAURINBURG	KI4RR	146.025	146.625	*	BEP
LENOIR	N4NIN	147.795	147.195	D	
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEXINGTON	K4IZM	146.31	146.91	D	AE
LK NORMN/CLT	WB4KPF	147.615	147.015	N	P
LUMBERTON	KS4S	147.96	147.36	*	P
MACO	WA4LED	147.66	147.06	*	P
MADISON	KA4YFF	146.295	146.895	*	
MANTEO/WANCHESE	KC4VM	146.34	146.94	*	ALE
MARION	WD4PVE	146.385	146.985	N	A
MIDWAY	KM4AR	144.67	145.27	*	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	K4JCK	147.705	147.105	N	O
MONROE/UCARS	AB4DG	144.79	145.39	*	P
MORGANTON	K4VLY	147.75	147.15	*	
MOUNTAIN HOME	K4GHH	147.705	147.105	*	
MT AIRY	AC4NZ	146.34	146.94	*	
MT AIRY	N4XRY	146.37	146.97	*	EP
MT MITCHELL	WA4BVW	144.59	145.19	*	

MORE NORTH CAROLINA REPEATERS

MT. AIRY	KD4J	144.73	145.33	D	A
MURPHY	KC4WB	147.795	147.195	N	O
MURPHY/STALCUP	K4FOY	147.465	146.865	*	BT151.4
N. WILKESBORO	N4AGN	144.77	145.37	*	P
NAGS HEAD/BODIE	K4UOR	146.235	146.835	*	AE
NEW BERN	WD4JMS	146.01	146.61	N	AL
NEWPORT	K4GRW	144.85	145.45	D	A
NEWTON	AG4L	147.675	147.075	*	ABER
NEWTON/ANDSN	MTW4ZQB	144.57	145.17	*	
OXFORD	KA4RVS	144.57	145.17	N	P
OXFORD	WA4MII	144.77	145.37	*	
RALEIGH	N4BQF	144.67	145.27	N	PL
RALEIGH	K4BWC	144.89	145.49	*	BY
RALEIGH	W4DW	146.04	146.64	*	ABE
RALEIGH	K4BWC	146.13	146.73	*	PB
RALEIGH	WB4TQD	146.28	146.88	*	L
RALEIGH	WB4TQD	147.75	147.15	*	P
RALEIGH BENSON	AK4H	147.87	147.27	*	BEP
RANDLEMAN/GBO	WD4CVM	144.55	145.15	*	L
RED SPRINGS	W4MZP	147.90	147.30	*	P
REIDSVILLE	K4YEC	146.25	146.85	*	L
ROANOKE RAPIDS	WA4DTS	147.63	147.03	D	P
ROARING GAP	WB4PZA	146.22	146.82	*	
ROCKINGHAM	WD4AVP	146.355	146.955	*	ABE
ROCKY MOUNT	WN4Z	147.72	147.12	D	PE
SALISBURY	W4EXU	146.13	146.73	*	ELR
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	W4RXG	144.51	145.11	D	Y
SAURATOWN MT	W4NC	144.87	145.47	*	B
SAURATOWN MT	N4QDK	146.19	146.79	D	EP
SAURATOWN MT	K4JYH	147.915	147.315	*	BP
SELMA	KK4YP	147.615	147.015	N	C BEP
SHALLOTTE	K4PPD	144.77	145.37	*	PE
SHALLOTTE	K4PPD	147.915	147.315	*	BEP
SHALLOTTE	N4FAU	147.99	147.39	*	BEP
SHELBY	W4NYR	146.28	146.88	*	
SHELBY	W4NYR	147.945	147.345	*	P
SMITHFIELD	KD4JQ	146.37	146.97	*	A
SMITHFIELD	WB4IUY	147.99	147.39	N	ABE
SOUTHPORT	K4JYH	146.175	146.775	*	
SPARTA/GREEN MT	K4ITL	144.83	145.43	N	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	KB4QP	146.085	146.685	*	PE
STATSVL/ASBRY MT	KB4QP	147.645	147.045	*	Y
SWANSBORO	KO4S	146.16	146.76	*	A
TABOR CITY	W4DCD	147.975	147.375	N	ALR
THOMASVILLE	K4AZA	146.40	147.00	*	LA
TRENTON	WB4TQD	144.61	145.21	*	L
TRYON/MELROSE	MTW84SFK	147.78	147.18	N	C
TUCKASEGEE	W8OMV	147.90	147.30	N	
WADESBORO	W4USH	146.235	146.835	*	A
WASHINGTON	WA4TEP	147.945	147.345	*	A
WAXHAW	WA4ZRS	147.465	146.865	D	P
WAYNESVILLE	N4SM	147.87	147.27	*	A
WHITEVILLE	K4MSD	147.81	147.21	*	AL
WILLIAMSTON	KA4KNU	144.81	145.41	*	ABL
WILMINGTON	W4VNK	146.13	146.73	*	AB
WILMINGTON	K4GMP	146.22	146.82	*	BL
WILMINGTON	KM4GN	147.735	147.135	N	
WILMINGTON	N4CTJ	147.78	147.18	N	AL
WILSON	WB4THL	146.16	146.76	D	A
WINSTON-SALEM	W4NC	146.04	146.64	*	ABL
YADKINVILLE	N4XRY	146.415	147.015	*	
YAUPON BEACH	W4RPC	146.07	146.67	*	

220 MHZ

ANDREWS/ROBBINSV	K4AIH	223.28	224.88	*	TL
ARCHDALE	KC4HTS	223.22	224.82	*	R
ASHEVILLE	NC4N	223.00	224.60	*	
ASHEVILLE	N4TFU	223.14	224.74	D	BL
ASHVL/MT PISGAH	WA4BVW	222.66	224.26	*	
BALD CREEK	N1BEC	222.52	224.12	N	
CANTON	N4DWU	223.22	224.82	*	P
CHARLOTTE	W4BFB	222.80	224.40	*	A
CHERRYVILLE	K4JTX	223.36	224.96	*	
EDEN	WA4WGY	223.18	224.78	*	ABER
FAYETTEVILLE	W4EHF	222.42	224.02	*	L
FAYETTEVILLE	W4EHF	222.96	224.56	N	
GOLDSBORO	AA3CH	223.36	224.96	*	ELPT156.7
GREENSBORO	WB4WOR	222.54	224.14	*	K
GRIFTON	WA4DAN	223.24	224.84	*	L
HENDERSONVILLE	N4UQS	223.36	224.96	*	
HENDSVL/BERWLW	MWA4KNI	222.64	224.24	*	
HIGH POINT	N4NNR	223.00	224.60	*	AL
HILLSBOROUGH	WA4WTX	222.66	224.26	D	L
JACKSONVILLE	WA4WGA	222.72	224.32	*	C
LENOIR/HIBRITN	KN4K	222.56	224.16	*	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	N	
LOCUST	WA4ZIA	222.88	224.48	*	PL
MARS HILL	WB4PLA	223.06	224.66	*	L
MARSHALL	KA4TYO	222.76	224.36	N	
MORGANTON	WB4PML	223.20	224.80	D	
MT MITCHELL	WA4BVW	222.94	224.54	*	
OXFORD	KA4RVS	223.14	224.74	N	
RALEIGH	WA4PEN	223.04	224.64	D	O PL
ROCKY MOUNT	NF4C	222.62	224.22	*	AR
ROCKY MOUNT	KC4FKC	222.98	224.58	*	AB
SALISBURY	W4EXU	223.16	224.76	*	L
SAURATOWN MT	WA4YHH	222.98	224.58	*	
SAURATOWN MT	W4RXG	223.10	224.70	D	OY
SAURATOWN MT	W4RXG	223.28	224.88	D	O
SAURATOWN MT	WA4WTB	223.36	224.96	*	
SHELBY	W4NYR	222.46	224.06	*	
SHELBY	KC4ZTJ	222.86	224.46	*	
SPINDALE	KC4IEV	222.84	224.44	*	CT146.3
STATESVILLE	WA4PVI	222.70	224.30	N	
SUNSET BEACH	AC4AM	223.06	224.66	D	
THOMASVILLE	K4AZA	222.74	224.34	*	LA
TRENTON	WA4DAN	223.12	224.72	*	
WILMINGTON	KM4GN	222.60	224.20	N	
WILMINGTON	K4YNY	222.90	224.50	N	LR
WINSTON-SALEM	WA4YHH	223.04	224.64	*	RP

440 MHZ

AHOSKIE	WB4YNF	449.20	444.20	D	T
ANDREWS/ROBBINSV	K4AIH	448.65	443.65	*	BLT
ARCHDALE	KC4SVQ	448.30	443.30	D	AR
ASHEBORO	KC4VDI	449.975	444.975	*	C
ASHEVILLE	N4DWT	449.90	444.90	*	
BAKERSVILLE	KM4GR	447.75	442.75	*	C
BALD CREEK	N1BEC	449.875	444.875	N	
BOONE/RICH MTN	WA4PXV	448.575	443.575	*	BLR
BOSTIC	KC4YOQ	449.125	444.125	*	
BURLINGTON	AC4DZ	448.025	443.025	*	AT107.2
CHAPEL HILL	KZ1X	448.475	443.475	*	BCLT
CHARLOTTE	W4PPN	439.25	421.25	*	V
CHARLOTTE	W4CQ	449.45	444.45	*	
CHARLOTTE	W4BFB	449.60	444.60	*	
CHARLOTTE	K4DIL	449.675	444.675	*	
CHARLOTTE	W4CQ	449.85	444.85	*	A
DALLAS/CHARLOTTE	WA1WXL	449.95	444.95	*	BLT136.5
DENVER/CLT	KA4YMY	449.70	444.70	*	BL
DURHAM	WA4WTX	449.10	444.10	D	AL
FAYETTEVILLE	WB4YZF	449.40	444.40	D	
FOREST CITY	KC4YOQ	449.40	444.40	*	
GASTONIA	WB4BQG	449.15	444.15	D	ABELR
GASTONIA	WB4VTE	449.55	444.55	*	
GIBSONVILLE	WC3V	449.35	444.35	N	C
GOLDSBORO	AA3CH	448.05	443.05	*	ELT156.7
GREENSBORO	WB4GUG	447.225	442.225	*	
GREENSBORO	WD4PQZ	448.50	443.50	N	ALR
GREENSBORO	WB4WOR	449.30	444.30	*	BEP
GREENVILLE	AI4J	449.80	444.80	N	
#GREENVILLE	KC4UMO	449.925	444.925	N	UNCOORD.
#HAMLET	WA4ZIA	448.20	443.20	*	UNCOORD.
HAW RIVER	K2MZ	448.875	443.875	*	T
HENDSVL/BERWLW	MWA4KNI	449.25	444.25	*	
HICKORY	K4JEQ	449.00	444.00	D	
HIGH POINT	N4LXW	448.70	443.70	N	
HIGH POINT	WA4RIS	448.90	443.90	D	
JACKSONVILLE	WA4WGA	449.675	444.675	*	C
KANNAPOLIS	N4JEX	448.25	443.25	D	
KING/SAURATOWN	MWA4YHH	449.775	444.775	*	T103.5
LEVEL CROSS	AC4DZ	449.025	444.025	*	A
LEXINGTON	WD4ICX	449.50	444.50	N	
LOCUST	WA4LBT	448.70	443.70	D	PL
LUMBERTON	WB4DVN	449.625	444.625	N	B
#MARSHALL	KC4KPW	447.00	442.00	N	UNCOORD.
#MARSHALL	KC4KPW	448.00	443.00	N	UNCOORD.
MT AIRY/FSH PK	KF4UY	449.825	444.825	D	ABLR
MT MITCHELL	N4DWU	448.60	443.60	*	
MT. AIRY	N4XRY	449.925	444.925	*	
MURPHY	N4USU	447.60	442.60	D	T151.4
NEW BERN	WD4JMS	449.90	444.90	D	
OXFORD	KA4RVS	449.60	444.60	N	
PITTSBORO	WB4MMY	447.55	442.55	*	PT
POLKVILLE	KC4ZTJ	449.975	444.975	*	P
RALEIGH	N4BEA	447.15	442.15	N	L
RALEIGH	N4LMR	447.45	442.45	D	P
RALEIGH	N4ZCM	448.225	443.225	D	BPT
RALEIGH	WA4PEN	449.525	444.525	D	PL
RALEIGH	W4ATC	449.775	444.775	N	
RALEIGH	W4DW	449.875	444.875	*	O
RALEIGH	W4DW	449.95	444.95	*	A
REIDSVILLE/EDEN	K4YEC	449.80	444.80	*	
ROANOKE RAPIDS	KK4VM	449.55	444.55	N	AO
ROARING GAP	KC4XE	448.55	443.55	*	L
ROCKY MOUNT	N4JEH	449.70	444.70	D	BP
#ROCKY MT	WB4WAA	449.00	444.00	*	UNCOORD.
SALISBURY	W4HG	448.15	443.15	*	ABT
SALISBURY	K0SD	449.575	444.575	N	A
SALISBURY	N4MME	449.65	444.65	D	AT
SAURATOWN MT	K4AZA	439.25	421.25	*	OV
SAURATOWN MT	N4GGC	448.10	443.10	*	L
SAURATOWN MT	WA4WTB	448.40	443.40	*	C
SELMA	KK4YP	449.00	444.00	D	BP
SHELBY	W4NYR	439.25	427.25	*	V
SMITHFIELD	KD4BFI	449.25	444.25	N	
SPINDALE	KC4IEV	448.30	443.30	*	T123.0
STATESVILLE	N4VOZ	448.45	443.45	D	O A
SUNSET BEACH	AC4AM	447.625	442.625	D	
TAYLORSVL/BARR	MK4OLC	449.05	444.05	*	BC
THOMASVILLE	K4AZA	447.90	442.90	*	L
WEST JEFFERSON	WA4PXV	447.375	442.375	*	C
WILMINGTON	KM4GN	447.20	442.20	N	P
WILMINGTON	K4YNY	447.500	442.500	N	ALR
WILMINGTON	KM4GN	449.20	444.20	N	
WILMINGTON	K4GMP	449.85	444.85	*	B
WILSON	NE4J	449.90	444.90	*	L
WINSTON-SALEM	W4NC	449.275	444.275	*	C
WINSTON-SALEM	N4QDK	449.725	444.725	N	A
YADKINVILLE	N4AAD	447.80	442.80	*	A
YANCEYVILLE	N4VWK	449.225	444.225	N	A
YAUPON BEACH	W4RPC	448.40	443.40	*	C

1270 MHZ

CHARLOTTE	KA4YMY	1271.95	1291.95	*	
#CHARLOTTE	W4PPN	1277.25	1253.25	*	UNCOORD.

SOUTH CAROLINA REPEATERS

10 METERS

RKY RDG/WALLACE	KA4ABW	29.60	RMT.BS	*	R

6 METERS

PICKENS	WB4YXY	52.41	53.41	N	

2 METERS

AIKEN	W4TUN	144.57	145.17	N	A
AIKEN	N4ADM	147.885	147.285	*	P
ANDERSON	N4SZ	146.37	146.97	*	BP
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	B
AWENDAW	K4ESG	147.90	147.30	N	PT103.5
AWENDAW	K4LWS	147.945	147.345	N	BT103.5
BAMBERG	WA4DFP	144.73	145.33	*	
BARNWELL	WA4FOF	147.63	147.03	*	B
BEAUFORT	KB4GY	144.71	145.31	*	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	N	
BOWMAN	KC4NXU	144.79	145.39	N	
CHARLESTON	WB4UIV	144.65	145.25	N	
CHARLESTON	WA4USN	146.19	146.79	N	
CHARLESTON	KC4UDD	146.235	146.835	*	ABL
CHARLESTON	KD4PBC	146.34	146.94	N	BL
CHARLESTON	WB4LET	147.87	147.27	D	PL
CHERAW	KA4ABW	147.735	147.135	N	AE
CHESTER	AC4IP	146.025	146.625	N	CLOSED-T
COLUMBIA	WB4NEP	146.115	146.715	N	P
COLUMBIA	KC4GYM	146.175	146.775	*	BLPT156.7
COLUMBIA	KB4HE	146.40	147.00	N	BLPT
COLUMBIA	N4NUY	147.93	147.33	*	
COLUMBIA	N4EOY	147.96	147.36	N	L
CONWAY	WD4JMT	144.51	145.11	*	BE
DILLON/PEE DEE	NN4N	146.145	146.745	*	
DORCHESTER	W4NAT	147.78	147.18	N	
FLORENCE	W4ULH	146.25	146.85	*	A
FLORENCE	WA4ISM	146.37	146.97	*	A
FLORENCE	W4PNZ	147.795	147.195	N	B
FT MILL/CAROWND	AA4SC	147.78	147.18	N	
GAFFNEY	KN4RG	144.87	145.47	*	B
GASTON	WB4NEP	144.61	145.21	N	P
GEORGETOWN	WD4DMI	147.975	147.375	N	
GREENVILLE	W4IQQ	146.34	146.94	*	T
GREENVILLE	K4LEO	147.975	147.375	D	T
GREENWOOD	K4VIA	147.765	147.165	*	BP
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	*	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	*	P
HILTON HEAD	W4ILN	147.84	147.24	*	
INMAN	WD8OXE	144.55	145.15	*	P
LANCASTER	W4PAX	146.10	146.70	*	
LANCASTER	KC4AC	147.84	147.24	*	
LEXINGTON	KB4HE	146.64	147.00	N	BL
LEXINGTON	KA4FEC	147.99	147.39	*	B
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	E
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MYB BCH/BRKSVIL	W4DCD	147.885	147.285	N	AL
MYRTLE BEACH	WA4DDK	144.87	145.47	N	T
MYRTLE BEACH	WD4JMT	147.72	147.12	*	BER
N. AUGUSTA	K4FKJ	146.13	146.73	*	
N. MYRTLE BEACH	K4HOG	147.63	147.03	*	B
N. SPARTANBURG	N4UZT	147.915	147.315	N	ABT141.3
NEWBERRY	KB4CO	146.085	146.685	N	

MORE SOUTH CAROLINA REPEATERS

ORANGEBURG	WM3O	146.205	146.805	N	C
ORANGEBURG	KC4WIF	146.28	146.88	*	ABL
ORANGEBURG	KM4RP	147.69	147.09	N	
PAGELAND/HIPOINT	KA4ABW	146.295	146.895	*	ABLR
PICKENS	WB4YXZ	146.40	147.00	N	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	*	A
ROCK HILL	AA4PF	144.71	145.31	*	PL
ROCK HILL	K4YTZ	146.43	147.03	N	P
SANTEE	W4DTW	147.825	147.225	N	AB
SENECA/LONG MT.	WA4JRJ	147.87	147.27	*	BEP
SIMPSONVILLE	WD4BJY	146.13	146.73	*	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	Y
SPARTANBURG	K4JLA	147.69	147.09	*	A
ST. MATTHEWS	AD4U	146.07	146.67	*	ABLRT131.8
SUMMERTON	N4LWY	144.55	145.15	D	P
SUMTER	WB4KIV	144.53	145.13	N	
SUMTER	WB4KIV	146.04	146.64	*	
SUMTER	WA4UMU	147.615	147.015	*	P
SUMTER/SHAW	W4VFR	147.66	147.06	D	A
WEST COLUMBIA	KC4GYM	144.67	145.27	*	BLP
WEST COLUMBIA	KC4GYM	144.83	145.43	*	P
WHITE HALL	W4BWZ	146.31	146.91	D	B
WHITE OAK MTN.	WD4MGM	147.885	147.285	D	

220 MHZ

AIKEN	W4TUN	223.36	224.96	N	TA
CHARLESTON	KA4NRL	222.58	224.18	N	BP
COLUMBIA	K4RWN	222.58	224.18	N	
#COLUMBIA	KC4SWI	223.04	224.64	N	UNCOORD.
COLUMBIA	N4EOY	223.30	224.90	N	LR
CROSS	KB4VFD	222.98	224.58	*	CA
FLORENCE	N4JJ	223.34	224.94	N	BP
GREENVILLE	W4ILY	222.60	224.20	*	A
LITTLE MTN.	K4RWN	222.92	224.52	N	PB
ORANGEBURG	KO4BR	223.18	224.78	N	BP
PICKENS	WB4QHF	222.80	224.40	*	BP
PICKENS/CSRS HD	WB4QHF	222.54	224.14	*	LR
PICKENS/SASFR MT.	KJ4X	222.72	224.32	*	B
ROPER MT/GRNVL.	W4NYK	223.32	224.92	*	
SUMTER	K4GYR	223.26	224.86	*	
SUMTER/SHAW	W4VFR	223.06	224.66	N	
WEST SPRINGS	KN4CW	222.84	224.44	N	BP

440 MHZ

AIKEN	W4TUN	448.40	443.40	N	TA
ANDERSON/SAS MT	WD4BUH	449.925	444.925	*	BO
CHARLESTON	N4MNH	449.30	444.30	*	AB
CHARLESTON	KD4PBC	449.95	444.95	N	BL
COLUMBIA	KC4GYM	442.10	447.10	*	BT156.7
COLUMBIA	N4EOY	448.00	443.00	N	LR
CROSS	KB4VFD	447.30	442.30	*	CA
GAFFNEY	KN4RG	449.80	444.80	*	C
GEORGETOWN	WD4JMT	449.925	444.925	N	AB
GREENVILLE	KB4PQA	447.25	442.25	*	BRP
GRNVLE/PARIS MT.	ND4N	448.35	443.35	*	P
LEXINGTON	N4GUP	439.25	421.25	*	V
MYR BCH/BRKSVIL	W4DCD	449.525	444.525	N	ALR
MYR BCH/CONWAY	WD4JMT	449.675	444.675	*	ABT203.5
NORTH CHARLESTON	KC4UDD	449.60	444.60	*	AB
PICKENS/CSRS HD	WB4QHF	447.40	442.40	*	
SUMMERVILLE	WA4HNK	448.80	443.80	*	EP
SUMTER	WA4UMU	439.25	423.25	N	V
SUMTER	K4GYR	449.50	444.50	*	P
#WEST COLUMBIA	KC4GYM	449.20	444.20	*	UNCOORD.

TENNESSEE REPEATERS

10 METERS

GREENEVILLE	WB4NKM	29.54	29.64	*	
JACKSON	NQ4W	29.54	29.64	N	C
MEM/FISHERVILLE	N4DRL	29.58	29.68	D	ALR
MEMPHIS	W4ZJM	29.52	29.62	*	BLT*#
NASHVILLE	WA4BZU	29.54	29.64	N	TLO
UNION CITY	WA4YGM	29.56	29.66	*	O

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	
GALLATIN	WD4KWP	52.45	53.45	N	L
GREENEVILLE	WB4NKM	52.01	53.01	*	
GUTHRIE (TN/KY)	KA4ZKL	52.23	53.23	N	

This SERA Official Repeater Index Reflects Changes thru January 17, 1993

KNOXVILLE	WA4YON	52.25	53.25	D	
KNXVL/ENG MT.	WB4IOB	52.15	53.15	*	A
MEM/FISHERVILLE	N4DRL	52.27	53.27	D	LRT
MEMPHIS	WA4KOG	52.01	53.01	N	
MEMPHIS	K4RDK	52.55	53.55	N	
MORRISTOWN	KD4LP	52.23	53.23	*	
NASHVILLE	N4ARK	52.525	145.21	*	BR
OAK RIDGE	WD4GYN	52.11	53.11	*	

2 METERS

ALAMO	WB4EDS	147.735	147.135	D	
ALCOA	N4RYR	146.055	146.655	N	ABE
ANDERSON CTY	WB4KUD	146.10	146.70	*	AB
ATHENS	WA4PNI	144.71	145.31	*	T141.3
BENTON	K4SIR	144.85	145.45	N	T
BLOUNTVILLE	WA4KMG	147.60	147.00	D	B
BLUFF CITY	KA4ZTK	147.885	147.285	D	BE
BRISTOL	WB4DKI	146.07	146.67	*	A
BRISTOL	WD4CYZ	146.28	146.88	N	
BRISTOL/HLSTN MT.	K4LSP	146.16	146.76	N	A
BROWNSVILLE	KB4YTU	144.83	145.43	N	PL
BROWNSVILLE	K4OKV	146.055	146.655	*	AB
CARTHAGE	N4OTT	144.59	145.19	*	
CHATT/SIGNAL MT.	W4AM	146.055	146.655	N	O
CHATTANOOGA	K4CMY	144.53	145.13	*	
CHATTANOOGA	K4VCM	144.69	145.29	*	
CHATTANOOGA	W4AM	144.79	145.39	*	A
CHATTANOOGA	K4CMY	146.01	146.61	*	
CHATTANOOGA	W4AM	146.19	146.79	*	A
CLARKSVILLE	WD4SGA	147.60	147.00	N	
CLARKSVILLE	AA4TA	147.99	147.39	*	A
CLEVELAND	W4GZX	146.31	146.91	*	A
CLEVELAND	WD4DES	147.78	147.18	*	A
COLLEGEDALE	KE4QS	147.60	147.00	*	BP
#COLLIERVILLE	NU5O	144.53	145.13	*	UNCOORD.
COLLIERVILLE	KB4YGI	147.63	147.03	N	
COLLINWOOD TN.	KM4ME	146.055	146.655	N	
COLUMBIA	WA4ZYX	147.72	147.12	*	AB
COOKEVILLE	NQ4Y	144.51	145.11	N	
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	K4HKZ	147.645	147.045	N	C
COOKEVILLE	N4WS	147.81	147.21	*	AER
COVINGTON	WA4KOG	144.85	145.45	N	PR
COVINGTON	WA4VXW	147.93	147.33	N	PLK
#CROSSVILLE	AC4AA	147.465	146.865	N	UNCOORD.
CUMBERLAND CITY.	WD4DBJ	144.73	145.33	*	
DAYTON/RHEA CTY	K4PHT	147.99	147.39	*	B
DECATUR-PONE KB.	W4RJC	144.55	145.15	D	
DOVER	N4VIH	144.81	145.41	N	
DYERSBURG	WB4RCK	146.145	146.745	N	
ERWIN	WB4BRV	144.65	145.25	N	BPT
#ERWIN/UNICOI CO	WB4BRV	147.765	147.165	*	UNCOORD.
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	BP
FISHERVILLE	N4DRL	144.65	145.25	D	ABEL
FRANKLIN	KK4IY	146.385	146.985	N	
FRUITLAND	NU5O	146.175	146.775	*	BL
GALLATIN	N4SSB	144.53	145.13	*	T107.2
GALLATIN	WD4BKY	147.84	147.24	*	BLT114.8
GALLATIN	WA4YQC	147.87	147.27	*	BLPT114.8
GERMANTOWN	KA4ATI	147.69	147.09	N	
GRAND JUNCTION	N4DRL	147.63	147.03	D	
GRANDJUNCTION	N4DRL	146.43	147.03	N	
GRAY	WD4SBX	144.51	145.11	D	
GRAY/HOLSTON MT	WD4SBX	147.81	147.21	D	T103.5
GREENBRIER	WQ4E	146.22	146.82	N	PR
GREENBRIER	WQ4E	147.675	147.075	N	B
GREENEVILLE	K4EPC	144.79	145.39	*	
GREENEVILLE	WB4NKM	144.81	145.41	*	
GRNVLE/VIKING MT	KB4UG	147.66	147.06	D	R
GTLBG/COVE MTN.	WA4KJH	146.25	146.85	*	LE
GUTHRIE (TN/KY)	KA4NNE	146.205	146.805	D	
HENDERSON	K4TC	147.705	147.105	*	PE
HENDERSONVILLE	WB4WZK	144.67	145.27	*	PT
HENDERSONVILLE	K4UVH	147.945	147.345	N	
HOHENWALD	KE4KO	144.85	145.45	N	
HUMBOLDT	NQ4Y	144.75	145.35	N	AL
JACKSON	WB7BOX	144.51	145.11	N	AL
JACKSON	KF4SC	144.71	145.31	N	A
JACKSON	W4WKZ	147.81	147.21	N	A
JAMESTOWN	K4NLP	147.69	147.09	*	
JASPER	KD4XX	144.59	145.19	*	A
JOHNSON CITY	WB4SQC	144.69	145.29	*	BP
JOHNSON CITY	W4ABR	146.19	146.79	*	BP
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT.	W4TRC	146.37	146.97	*	BP
KNOXVILLE	KN4QB	144.51	145.11	*	
KNOXVILLE	WB4GBI	144.57	145.17	*	
KNOXVILLE	W4BBB	144.61	145.21	*	A
KNOXVILLE	WA4TEM	144.73	145.33	*	ABER
KNOXVILLE	N4GRC	144.77	145.37	*	
KNOXVILLE	N4IUA	144.83	145.43	N	
KNOXVILLE	WB4GBI	144.87	145.47	*	
KNOXVILLE	WB4GBI	146.025	146.625	*	
KNOXVILLE	WB4GBI	146.34	146.94	*	
KNOXVILLE	KA4AZQ	146.40	147.00	*	BT100.0
KNOXVILLE	WB4GBI	147.675	147.075	*	A
KNOXVILLE	KA4AZQ	147.795	147.195	*	BT100.0
KNOXVILLE	W4BBB	147.90	147.30	*	
KNXVL/ENG MT.	WB4IOB	146.13	146.73	*	
LAFAYETTE	KC4ECD	144.71	145.31	*	ET
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE	KA4OAK	147.96	147.36	N	
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	D	A
LAVERNE	KJ4RA	144.63	145.23	N	
LEBANON	WB4DOR	144.79	145.39	N	
LEBANON	WD4JVV	147.615	147.015	N	
LEXINGTON	WD4MVR	146.43	147.03	N	
MANCHESTER	W4UOT	146.10	146.70	D	A
MARTIN	N4ABU	146.025	146.625	*	A
MAYNARDVILLE	KB4KIE	144.63	145.23	N	E
MCMINNVILLE	WD4MWQ	146.37	146.97	D	P
MCMINVL/SHT MT.	WB4LHO	144.89	145.49	N	
MCNAIRY	NU5O	147.675	147.075	*	BL
MEDINA	WA4RWK	146.37	146.97	N	AB
MEM/FISHERVILLE	N4DRL	144.73	145.33	D	ABL
MEMPHIS	K0JXI	144.55	145.15	N	
MEMPHIS	KA0BRN	144.57	145.17	N	ALT
MEMPHIS	WA4KOG	144.89	145.49	N	
#MEMPHIS	WB4KQQ	146.04	146.64	N	UNCOORD.
MEMPHIS	WB4DAZ	146.13	146.73	*	P
MEMPHIS	WA4HBY	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	D	P
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	*	AL
MEMPHIS	N4BSM	146.34	146.94	N	A
MEMPHIS	W4ZJM	146.40	147.00	*	BLT*#
MEMPHIS	WA4MQQ	147.66	147.06	N	
MEMPHIS	KA4GMV	147.72	147.12	N	AT
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WA4ADT	147.90	147.30	*	PL
MONTEAGLE	N4SSB	144.81	145.41	*	LTO
MORGAN COUNTY	WD4ORB	147.93	147.33	*	
MORRISTOWN	KD4LP	144.85	145.45	*	B
MORRISTOWN	KD4LP	147.63	147.03	*	E
MORRISTOWN	WB4OAH	147.825	147.225	D	A
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MURFREESBORO	WB4LHO	144.57	145.17	N	
NASHVILLE	N4ARK	144.61	145.21	*	BLR
NASHVILLE	N4ARK	144.61	52.525	*	BLR
NASHVILLE	N4ARK	144.87	145.47	*	BP
NASHVILLE	WA4PCD	146.01	146.61	N	P
NASHVILLE	W4PQP	146.16	146.76	N	
NASHVILLE	W4SQE	146.19	146.79	*	
NASHVILLE	N4TK	146.25	146.85	*	PT114.8
NASHVILLE	WA4TOA	146.28	146.88	*	PT114.8
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	K4AYN	147.645	147.045	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	K4ZGA	147.78	147.18	*	ABT
NASHVILLE	WA4BZU	147.855	147.255	N	TP
NASHVILLE	WB4ZSA	147.90	147.30	N	P
NASHVILLE	WB4NTM	147.96	147.36	D	ATL
NASHVILLE W.	WB4NTM	146.04	146.64	D	AT
NASHVILLE W.	WB4NTM	146.07	146.67	D	ATL
NASHVLE/FAIRVIEW	N4ARK	144.51	145.11	*	B
NOLENSVILLE	WD4JYD	144.75	145.35	N	
OAK RIDGE	W4SKH	146.28	146.88	D	
OAK RIDGE	W4SKH	146.37	146.97	D	A
OAK RIDGE	K4EAJ	147.72	147.12	*	
OAK RIDGE	K4EAJ	147.75	147.15	*	LT
OAKFIELD	WA4BJY	147.99	147.39	N	PRT
OLIVER SPRINGS	AA4UP	146.145	146.745	*	
PARIS	K4KLX	147.96	147.36	N	A
PETROS/FRZ HD MT.	KJ4SI	147.855	147.255	*	BEP
PIKEVILLE	K4PUX	147.885	147.285	*	
PINSON	WB0TMC	147.87	147.27	N	C
POCAHONTAS	WB4MMI	144.65	145.25	N	
PULASKI/MUSIC MT.	WB4OYG	146.175	146.775	D	E
PURYEAR	WA4CEX	147.765	147.165	D	
RAMER	WB4MMI	146.10	146.70	N	
RIDGETOP	WD4FFM	144.69	145.29	N	
#ROCKWOOD/MT ROOKA	4QYI	146.04	146.64	*	UNCOORD.
ROCKWOOD/MT ROOS	AA4KS	147.615	147.015	*	ABER
ROGERSVILLE	KD4HZN	147.915	147.315	N	AB
SALTILLO	KB4JUB	146.115	146.715	N	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT.	N4CJX	144.67	145.27	N	
#SHELBYVILLE	KC4KRM	144.53	145.13	*	UNCOORD.
#SHELBYVILLE	W4QEB	147.66	147.06	N	UNCOORD.
SHOP SPRINGS	N4IDG	147.705	147.105	*	ELPT100
SHORT MTN.	W4YXA	146.31	146.91	N	
#SMITHVILLE	KI4OG	144.77	145.37	N	UNCOORD.
SPRING HILL	NW4E	144.85	145.45	N	A
SULPHUR SPRINGS	WD4OBW	146.325	146.925	*	CL

MORE TENNESSEE REPEATERS

TRENTON	KN4KP	146.265	145.865	N	AENB
UNION CITY	WA4YGM	146.10	146.70	*	A
UNION CITY	WA4YGM	147.615	147.015	*	OAR
WALLAND	KB4PIO	146.085	146.685	N	BP
WATERTOWN	KE4WA	146.13	146.73	N	T100
WATERTOWN	N4IDG	146.235	146.835	*	LP
WINCHESTER	W4SFF	146.22	146.82	D	A

220 MHZ

BLOUNTVILLE	WA4KMG	222.60	224.20	D	B
BROWNSVILLE	KB4YTU	222.60	224.20	N	PL
CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	*	
CLARKSVILLE	KF4GP	222.34	223.94	N	
CLEVELAND	KK4US	222.72	224.32	N	AB
CLINCH MTN	KC4RGQ	223.04	224.64	*	ABL
COLLIERVILLE	KB4YGI	222.80	224.40	N	PL
COLUMBIA	KE4KO	223.12	224.72	N	
FISHERVILLE	N4DRL	223.28	224.88	D	AL
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	N	
GREENBRIAR	WQ4E	223.20	224.80	N	AB
GREENBRIER	WQ4E	223.16	224.76	N	PR
GREENEVILLE	WB4NKM	223.34	224.94	*	ABR
HERMITAGE	WB4RAB	222.30	223.90	N	
JC/BUFFALO MT	WA4UCI	223.18	224.78	D	
JONESBOROUGH	WD4OBW	222.92	224.52	*	ALB
KNOXVILLE	N4OQJ	222.78	224.38	*	B
KNOXVILLE	WA4YON	222.86	224.46	D	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNOXVILLE	N4KFI	223.26	224.86	N	B
KNXVL/CROSS MT	KB4FZK	222.62	224.22	*	BT100
LAFOLLETTE	KA4OAK	222.68	224.28	N	
LAVERGNE	KJ4RA	223.36	224.96	N	
MEM/FISHERVILLE	N4DRL	222.90	224.50	D	AL
MEMPHIS	W4ZJM	222.34	223.94	*	BLT*#
MEMPHIS	W4BS	222.82	224.42	D	L
MEMPHIS	WA4KOG	223.18	224.78	N	
MORRISTOWN	N4RBB	222.80	224.40	D	AB
NASHVILLE	WB4NTM	222.48	224.08	D	
NASHVILLE	WR3S	222.56	224.16	D	ABRL
#NASHVILLE	KB4ZOE	222.76	224.36	*	UNCOORD.
NASHVILLE	KI4OG	222.84	224.44	N	AERT
NASHVILLE	K4ZGA	222.88	224.48	*	
NASHVILLE	WR3S	223.06	224.66	D	ALR
NASHVILLE	N4PYI	223.14	224.74	*	ALRT100.0
NASHVILLE	WA4PCD	223.34	224.94	N	T
SEVIERVILLE	N2FUV	222.84	224.44	N	PT
SHORT MTN	KE4NP	222.66	224.26	D	LR
SPRINGFIELD	KO4BN	222.62	224.22	D	ABER

440 MHZ

ALAMO	WB4EDS	448.75	443.75	D	L
BARTLETT	WA4DOR	448.70	443.70	N	T
BARTLETT	WA4PAJ	449.25	444.25	N	
BENTON/BEAN MT	K4SIR	449.95	444.95	N	T
BETHPAGE	KC4YCR	447.20	442.20	N	
BLUFF CITY	WB4RAV	449.725	444.725	N	BCO
BRISTOL/HLST MT	K4LSP	449.50	444.50	N	A
BROWNSVILLE	KB4YTU	449.20	444.20	N	PL
BROWNSVILLE	KB4YTU	449.45	444.45	N	CPL
CARTHAGE	N4OTT	448.725	443.725	*	
CHATTANOOGA	WJ9J	447.15	442.15	N	ABELR
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	W4AM	449.10	444.10	*	A
CHATTANOOGA	WB4LRD	449.875	444.875	N	
CLARKSVILLE	KF4GP	449.95	444.95	N	
CLEVELAND	WD4DES	447.25	442.25	*	
CLEVELAND	KD4NEB	447.45	442.45	N	AB
CLEVELAND	W4GZX	449.275	444.275	*	C AB
COOKEVILLE	N4UBR	447.30	442.30	N	B
COOKEVILLE	NQ4Y	449.55	444.55	N	
CUMBERLAND CITY	WD4DBJ	448.40	443.40	*	PT
DOVER	N4VIH	449.925	444.925	N	
FAYETTEVILLE	KC4GPM	448.10	443.10	*	O
FISHERVILLE	N4DRL	449.30	444.30	D	ABEL
FRANKLIN	N4ULM	448.85	443.85	N	
FRANKLIN	WA4AKM	449.725	444.725	*	LT
GALLATIN	N4SSB	447.60	442.60	*	BLT107.2
GALLATIN	WD4BKY	449.00	444.00	*	CBLPT107.2
GALLATIN	WD4BKY	449.35	444.35	*	LPT114.8
GALLATIN	WD4KWP	449.45	444.45	N	
GALLATIN	WA4AKM	449.775	444.775	*	NT107.2
GATLBG/COVE MT	WA4KJH	448.30	443.30	*	L
GORDONSVILLE	N4SSB	447.70	442.70	*	BLO
GRAY/HOLSTON MT	WD4SBX	447.20	442.20	D	T103.5
GREENBRIER	WQ4E	449.25	444.25	N	
GREENEVILLE	WB4NKM	449.65	444.65	*	T100.0
GRNVLE/VIKING MT	KB4UG	448.20	443.20	D	C
HENDERSON	K4TC	449.75	444.75	*	P
HENDERSONVILLE	N4SSB	447.50	442.50	*	BLT107.2
JACKSON	WB4EPG	447.80	442.80	N	A
JACKSON	WB7BOX	449.875	444.875	N	PERLT
JAMESTOWN	KC4MJN	448.625	443.625	D	
JASPER	KD4XV	447.05	442.05	*	O
JOHNSON CITY/HMV	WB4SQC	448.425	443.425	*	
KNOXVILL/ENG MTN	WB4HAP	449.60	444.60	*	
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	KD4IBW	448.675	443.675	N	
KNOXVILLE	KC4NNN	449.175	444.175	N	A
KNOXVILLE	WB4GBI	449.30	444.30	*	
KNOXVILLE	KB4KSL	449.50	444.50	*	AO
KNXVL/CROSS MTN	N4UAG	448.075	443.075	N	BT
LAFAYETTE	KC4ECD	449.125	444.125	*	RT
LAWRENCEBURG	AB4UP	447.675	442.675	*	
LONE MOUNTAIN	WJ9J	447.075	442.075	N	ELP
MARYVILLE	KC4PDQ	449.075	444.075	*	A
#MCMINNVILLE/HF	WD4MWQ	449.65	444.65	N	UNCOORD.
MCNAIRY	NU5O	449.55	444.55	*	CLOSED
MEDINA	WA4BJY	447.05	442.05	N	AL
MEMPHIS	W4EM	421.25	434.00	*	V
MEMPHIS	N4ERU	439.25	421.25	N	ATV
MEMPHIS	WB4EPG	447.625	442.625	N	
MEMPHIS	WF4G	447.825	442.825	N	
MEMPHIS	W4ZJM	448.00	443.00	*	BT*#
MEMPHIS	KA4JXT	448.10	443.10	N	T107.2
MEMPHIS	W4BS	448.20	443.20	N	
MEMPHIS	WA4QWW	448.40	443.40	N	A
MEMPHIS	WA4KOG	448.80	443.00	N	NB
MEMPHIS	KA5RYF	448.95	443.95	N	
MEMPHIS	KA0BRN	448.975	443.975	N	ALT
MEMPHIS	WA4ETE	449.00	444.00	*	T
MEMPHIS	K4RDK	449.025	444.025	N	
MEMPHIS	KA4JXT	449.10	444.10	D	RP
MEMPHIS	WA4KOG	449.40	444.40	N	
MEMPHIS	K0JXI	449.60	444.60	N	
MEMPHIS	K0JXI	449.80	444.80	N	
MEMPHIS	WB4NNE	449.95	444.95	N	O
MEMPHIS/ADAMS MK	K5FC	449.825	444.825	*	
MILAN	WD4ABJ	447.10	442.10	N	
MONTEAGLE	N4SSB	447.40	442.40	*	LTO
MORRISTOWN	KA4NEX	449.20	444.20	N	
MORRISTOWN	KD4LP	449.80	444.80	*	AB
MORRISTOWN	KD4LP	449.975	444.975	*	CLOSED
MT JULIET	WB4PUB	448.05	443.05	N	P
MULLOY	KD4BNW	447.90	442.90	N	BT
NASHVILLE	KJ4ZQ	439.25	421.25	N	V
NASHVILLE	KI4OG	449.05	444.05	N	ALTR
NASHVILLE	WB4NTM	449.15	444.15	D	ATL
NASHVILLE	N4ARK	449.225	444.225	*	BLPT107.2
NASHVILLE	WA4WCK	449.575	444.575	*	T
NASHVILLE	N4TK	449.625	444.625	*	PT107.2
NASHVILLE	WA4PCD	449.675	444.675	N	
NASHVILLE	WA4BGK	449.825	444.825	N	T
NASHVILLE	WA4AKM	449.875	444.875	*	T107.2
NASHVILLE	WA4AKM	449.975	444.975	*	LRPT107.2
OAK RIDGE	K4EAJ	449.40	444.40	*	L
OAKFIELD	WA4BJY	447.20	442.20	N	PTL
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
PIGEON FORGE	KD4CLA	449.925	444.925	*	P
PULASKI	KB4TPI	439.250	421.250	N	V
PULASKI	KB4TPI	447.150	442.150	N	
RAMER	WB4MMI	449.90	444.90	N	
ROCKWOOD	KA4WJS	448.975	443.975	N	
SHELBYVILLE	KC4KRM	448.825	443.825	*	
SHORT MTN	N4OYS	449.65	444.65	N	
#SMITHVILLE	N4PYI	449.525	444.525	*	UNCOORD.
SMRYNA	KJ4RA	448.975	443.975	N	
SODDY DAISY	WJ9J	449.45	444.45	N	BELRP
WATERTOWN	N4IDG	449.90	444.90	*	P

920 MHZ

MORRISTOWN	KD4LP	908.80	920.80	*	BP
NASHVILLE	K4ZGA	910.25	923.25	*	LV

1270 MHZ

MEMPHIS	N4MW	1272.00	1292.00	*	B
NASHVILLE	WA4WXJ	1272.40	1284.40	N	
NASHVILLE	KB4ZOE	1274.50	1286.50	*	AL
NASHVILLE	KD4EEW	1277.25	439.25	N	VL

BEACONS

GREENEVILLE	WB4NKM	222.058	BEACON	*
MEMPHIS	N4MW	28.25	BEACON	*
MEMPHIS	N4MW	50.07	BEACON	*
MEMPHIS	N4MW	144.288	BEACON	*
MEMPHIS	N4ZRW	144.297	BEACON	*
MEMPHIS	N4MW	222.055	BEACON	*
MEMPHIS	N4MW	432.395	BEACON	*
MEMPHIS	N4MW	902.28	BEACON	*
MEMPHIS	N4MW	296.28	BEACON	* C
MEMPHIS	N4MW	304.215	BEACON	*
MEMPHIS	N4MW	456.04	BEACON	*

VIRGINIA REPEATERS

(Listing updates for some repeaters courtesy of T-MARC)

10 METERS

NEWPORT NEWS	WB4CTF	29.60	29.60	*	R
ONEIDA PK/BLFLD	WZ8E	29.58	29.68	N	RL
ROANOKE/POOR MTN	WB8BON	29.54	29.64	*	CL
STERLING	KD4DN	29.58	29.68	M	MT

6 METERS

ALEXANDRIA	WA4CCF	52.13	53.13	M	ML
AMELIA COURTHSE	KB4YKV	52.11	53.11	N	P
ARLINGTON	KI4MB	52.05	224.06	M	MCL
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CENTERVILLE	KA4DCS	52.58	52.48	M	M
DANVILLE(DCC)	AA4QT	52.13	53.13	D	
GATE CITY	N4WWB	52.21	53.21	N	ABL
GUM SPRINGS	KB4MIC	52.07	53.07	*	
HERNDON	WD4KHP	52.62	52.82	M	TM
LEXNGTN/ROCK MT	KI4ZR	52.01	53.01	*	L
RICHMOND	WB4FAX	52.43	53.43	N	
ROANOKE	WB4DBB	52.25	53.25	*	L
ROANOKE/POOR MTN	WB8BON	52.09	53.09	*	CL

2 METERS

ABINGDN/BRMLY MTK	4LSP	146.01	146.61	N	L
ABINGDON	NM4L	146.34	146.94	*	ABL
ACCOMAC	WA4TVS	147.855	147.255	*	EB
ALEXANDRIA	WB4MJF	144.55	145.15	M	M
ALEXANDRIA	WD4PDP	146.055	146.655	M	MP
ALEXANDRIA	W4HFH	147.915	147.315	M	ML
ALTAVISTA	WA4ISI	146.055	146.655	*	BELP
ALTON	WD4LBM	146.46	147.06	*	P
AMELIA COURTHSE	KB4YKV	147.78	147.18	N	P
ARLINGTON	N4EFJ	144.87	145.47	M	M
BARREN SPRINGS	K4HZS	146.07	146.67	N	
BEAVERDAM	N4CJJ	144.65	145.25	N	BP
BEDFD-APL ORCH	WA1ZMS	144.81	145.41	*	BT100.0
BEDFD/APL ORCH	WB4DBB	144.63	145.23	*	
BEDFORD	WB4JBJ	147.705	147.105	N	PL
BLACKSBURG	AB9I	146.115	146.715	N	
BLAND	N4AZJ	144.75	145.35	*	RP
BLUEFIELD	W8MOP	144.89	145.49	*	P
BLUEMONT	WA4TSC	147.90	147.30	M	M
BRISTOL	WD4CYZ	146.28	146.88	N	
CHARLOTTESVILLE	KC4YLX	144.69	145.29	N	
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	*	
CHARLOTTESVILLE	N4RAG	146.295	146.895	N	T131.8
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	*	
CHASE CITY	W4AXH	146.31	146.91	*	
CHESAPEAKE	K4NDH	144.69	145.29	N	E
CHESAPEAKE	N4GSP	146.01	146.61	*	ABE
CHESAPEAKE	N4SD	146.19	146.79	D	AE
CHESAPEAKE	KL7SR	147.705	147.105	N	C
CHESTERFIELD	KA4CBB	147.96	147.36	*	BEP
CLARKSVILLE	N4ZCM	144.87	145.47	N	P
COLLINSVILLE	KN4DE	147.72	147.12	N	BLT103.5
COVINGTON	WA4HTI	146.205	146.805	*	L
CULPEPER	AA4VI	147.72	147.12	M	M
DANTE	WD4CYZ	147.855	147.255	N	
DANVILLE(DCC)	AA4QT	146.325	146.925	D	AET103.5
DANVILLE/WHT OAK	KM4AU	146.10	146.70	*	BERP
ENON	WA4ECM	147.66	147.06	*	BP
FAIRFAX	W4LBL	146.19	146.79	M	MP
FALLS CHURCH	W4AQD	144.75	145.35	M	MT
FARMVILLE	WA4QQI	144.73	145.33	*	
FINCASTLE	W4WIC	146.04	146.64	D	A
FOREST	KA7UKJ	144.77	145.37	*	L
FRANKLIN	K4SPS	147.90	147.30	*	PE
FREDRICKSBURG	WB4LNT	147.615	147.015	M	M
GALAX/BRIRP MT	N4VL	147.69	147.09	*	A
GALAX/LKOUT MT	N4VL	144.53	145.13	*	R
GATE CITY	N4WWB	146.22	146.82	N	
GLADYS	N4UTN	147.945	147.345	D	BL
GLOUCESTER	KC4TOG	144.77	145.37	*	PE
GREENBAY	K4ARO	144.55	145.15	N	
GRUNDY	K4HWQ	147.915	147.315	N	A
GRUNDY/BIG A MT	WD4DCX	146.235	146.835	N	L
GUM SPRING	WB4IKL	147.87	147.27	*	
HAMPTON	K4DHO	146.13	146.73	*	PE
HAMPTON	K4UMI	146.34	146.94	N	T
HAMPTON	KA4VXR	147.825	147.225	N	A
HARRISONBURG	N4YET	144.53	145.13	M	M
HARRISONBURG	WX4C	147.825	147.225	M	AMT-131.8
HARRISONBURG	N4YET	147.915	147.315	M	MA
HERNDON	N4FXP	144.71	145.31	M	MP
JEWELL RIDGE	WB4QJZ	147.75	147.15	N	
KILMARNOCK	W2MS	144.61	145.21	*	A
LEXINGTON	KI4ZR	147.90	147.30	*	AB
LEXNGTN/ROCK MT	KI4ZR	147.93	147.33	*	
LORTON	N4JOQ	144.57	145.17	M	MC

MORE VIRGINIA REPEATERS

LORTON	KE4ZN	144.57	145.17	M	MT
LUNENBURG CT.HSE	AA4OG	147.84	147.24	*	
LYNCHBURG	W4WWQ	146.01	146.61	*	
LYNCHBURG	AB4M	146.415	147.015	*	P
LYNCHBURG	WA4RTS	147.795	147.195	*	
LYNCHBURG	KB4ILD	147.975	147.375	N	P
MADISON	N4AJO	147.99	147.39	M	M
MANASSAS	WA4FPM	146.37	146.97	M	MBLPE
MARION	KC4SKE	144.67	145.27	N	T103.5
MARION	N4QLF	146.04	146.64	N	A
MARTINSVILLE	AA4QT	147.885	147.285	N	P
MCLEAN	WD4IWG	147.81	147.21	M	MBP
MOUNTAIN LAKE	WZ8E	147.465	146.865	N	PL
MT.LAKE/BALD KNB	K4TUE	146.31	146.91	*	P
NEW MARKET	K4AVW	146.025	146.625	M	MB
NEWPORT NEWS	W4MT	144.63	145.23	*	B
NEWPORT NEWS	WA4OHX	144.89	145.49	*	ABET''6''
NEWPORT NEWS	WB4CTF	147.765	147.165	*	PLR
NORFOLK	WA4ZUA	144.57	145.17	D	PER
NORFOLK	NS3F	144.73	145.33	*	
NORFOLK	NE4D	146.10	146.70	N	E
NORFOLK	KA4HBU	147.675	147.075	N	
NORTON/HIGH KNOB	K4AXO	146.415	147.015	N	LP
OILVILLE	N4TZE	147.69	147.09	N	C
ONEIDA PEAK/BLF ..	WZ8E	146.355	146.955	N	PL
PEARISBURG	N4AZJ	147.735	147.135	D	
PENNINGTON GAP.	N4LQC	146.10	146.70	N	
PETERSBURG	K4ARO	147.99	147.39	N	
PKS KB/PULASKI	KT4Z	147.78	147.18	*	P
PORTSMOUTH	W4POX	146.25	146.85	D	AE
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	WB4FAX	144.59	145.19	N	
RICHMOND	W4SQT	144.83	145.43	D	P
RICHMOND	WB4QEY	146.04	146.64	*	P
RICHMOND	WA4ZBE	146.28	146.88	*	P
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	T
ROANOKE	N4AP	146.34	146.94	N	A
ROANOKE/POOR MT	KC4DY	146.145	146.745	*	BEP
ROANOKE/POOR MT	W4CA	146.385	146.985	*	BEP
ROANOKE/POOR MT.	WB4QOJ	144.61	145.21	N	YVKL
ROANOKE/POOR MT	NK4ARO	144.79	145.39	D	LC
ROANOKE/POOR MT	NK8B4QW	147.87	147.27	N	BCLP
RUSTBURG/LONG MTN	4UTN	146.235	146.835	D	BP
SALEM	W4PDL	146.28	146.88	D	
SALUDA	AA4HQ	144.85	145.45	*	ABE
SMITHFIELD	N3ELM	147.795	147.195	*	BLPT100.0
STAFFORD	NM7J	144.67	145.27	M	MP
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	RY
STAUNTON	W4WRN	146.37	146.97	N	E
'TAUNTON/EL. KB	WD4FOZ	147.645	147.045	*	T131.8
STERLING	WA4TXE	146.115	146.715	M	MBP
STUARTS DRAFT	KB4OLM	147.96	147.36	*	PELP
SUFFOLK	WA4HMT	146.40	147.00	*	PE
TROY	KC4YLX	144.69	145.29	*	BEP
TYSONS CORNER	W4XG	146.31	146.91	M	MP
VIENNA	K4HTA	146.085	146.685	M	MB
VIRGINIA BEACH	WA4KXV	146.295	146.895	*	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	E
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	*	BP
WARRENTON	NZ4N	147.765	147.165	M	M
WARSAW	KA4ZIP	147.93	147.33	*	E
WAYNESBORO	W4PNT	147.675	147.075	*	BELP
WILLIAMSBURG	K2QIJ	144.81	145.41	*	BPT127.3
WILLIAMSBURG	W4NTG	146.07	146.67	*	ABE
WILLIAMSBURG	KB4ZIN	146.16	146.76	*	ABE
WINCHESTER	N4RAG	144.61	145.21	M	MT131.8
WINCHESTER	W4RKC	146.22	146.82	*	ME
WOODBRIDGE	WB4FQR	147.84	147.24	M	MA
WYTHEVILLE	WB3T	146.175	146.775	*	AEL
YORKTOWN	WA4ZBF	147.945	147.345	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	ML
ARLINGTON	KI4MB	222.46	224.06	M	M
BEDFD/APL ORCH	WB4DBB	224.26	222.66	*	RL
BEDFORD	N4PLV	223.24	224.84	D	B
BLFD/E.RIVER MTN	N8LGA	223.32	224.92	D	C B
CHARLOTTESVILLE	KB4YQC	222.54	224.14	*	BCPT
CHARLOTTESVILLE	WA4TFZ	223.16	224.76	N	
COLLINSVILLE	KN4DE	222.82	224.42	D	
DANVILLE	AA4QT	222.78	224.38	N	
DANVLE/WHITE OAK	N4GLA	222.84	224.44	D	AE
DELTAVILLE	AA4HQ	223.30	224.90	*	AE
ELLIOTTS KNOB	N4RAG	223.14	224.74	N	
FAIRFAX	WB4YHD	222.50	224.10	M	ML
FALLS CHURCH	N4CHP	223.38	224.98	M	MP
GLOUCESTER PT.	N4THN	223.02	224.62	*	BEP
HAMPDEN-SYDNEY	WB4PEA	222.60	224.20	D	O
HAMPTON	KB4UHA	223.26	224.86	N	OABER
LAKE GASTON	WA4HMT	223.00	224.60	*	C
LEESBURG	WA4TXE	222.42	224.02	M	M
LOVETTSVILLE	WB4FUJ	222.86	224.46	M	MC
LYNCHBURG	AB4M	222.68	224.28	*	P
MANASSAS	KB4CVL	222.74	224.34	M	M
MANASSAS	WA4FPM	223.06	224.66	M	MBLPE
MARTINSVILLE	WB4BVI	222.90	224.50	*	P
PETERSBURG	K4ARO	223.10	224.70	D	
RICHMOND	WA4ONG	222.92	224.52	N	K
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/CHAUS	MTAB4EM	223.34	224.94	*	
SINGERS GLEN	K4SAD	223.22	224.82	M	MC
STERLING	WD4KHP	222.12	223.72	M	M
TYSONS CORNER	WD4KHP	222.82	224.42	M	MT
TYSONS CORNER	WD4KHP	223.12	224.72	M	M
VIENNA	K4HTA	222.34	223.94	M	M
VIRGINIA BEACH	N4WQJ	223.14	224.74	*	
WOODBRIDGE	WB4GJZ	223.18	224.78	M	M

440 MHZ

ALEXANDRIA	WA9GVK	426.25	911.25	M	MVL
ALEXANDRIA	WA9GVK	426.25	439.25	M	MV
ALEXANDRIA	W4HFH	449.60	444.60	M	M
ALTAVISTA	WA4ISI	449.425	444.425	*	BELP
ARLINGTON	KA4DCS	444.875	449.875	M	M
ARLINGTON	KI4MB	449.15	444.15	M	M
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
BIG ''A'' MTN	KB4WTP	449.875	444.875	*	
BLUEFIELD	W8MOP	449.45	444.45		ER
BLUEFIELD	WZ8E	449.625	444.625	N	PL
BLUEMONT	WA4TSC	444.925	449.925	M	M
CHANTILLY	K4HTA	443.375	448.375	M	MC
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	K4NDH	448.80	443.80	N	P
CHESAPEAKE	N4EVG	448.90	443.90	D	PE
COLLINSVILLE	KN4DE	449.575	444.575	D	T103.5
COVINGTON	WA4HTI	447.25	442.25	*	O
ENON	WA4ECM	449.20	444.20	*	R
FAIRFAX	WD4KHP	444.775	449.775	M	MCL
FALLS CHURCH	N4EFK	449.30	444.30	M	M
FALLS CHURCH	K8ZOA	449.45	444.45	M	ML
FANCY GAP	N4OWU	449.375	444.375	*	LRT107.2
FANCY GAP	KC4TOU	449.90	444.90	N	
FOREST	W8CXD	448.60	443.60	*	O
FOREST	WD4KQI	449.75	444.75	*	A
GASBURG	WA4HMT	447.00	442.00	*	C
GATE CITY	N4WWB	449.70	444.70	D	L
GREAT FALLS	N3AVA	449.05	444.05	M	M
GREENBAY	K4ARO	448.175	443.175	D	
GUM SPRING	KB4MIC	447.80	442.80	*	
HAMPTON	K4UMI	448.65	443.65	N	
HAMPTON	K4OGT	449.55	444.55	*	EPT167.9
INDEPENDNCE HILL.	AA4VA	448.80	443.80	M	M
LEXNGTN/ROCK MT.	KI4ZR	449.15	444.15	*	
LORTON	WD4KHP	444.725	449.725	M	ML
LYNCHBG/JACK MT.	KF4YI	447.40	442.40	D	P
LYNCHBURG	K4HEX	426.25	923.25	*	V
LYNCHBURG	AB4FU	447.95	442.95	*	PT
LYNCHBURG/TOBRMTK	4HEX	449.50	444.50	*	R
MADISON	N8HON	449.40	444.40	M	MBL
MANASSAS	WD4JCE	444.225	449.225	M	ML
MT. VERNON	WA5ZAI	449.50	444.50	M	M
NORFOLK	WD4MIZ	449.675	444.675	D	
NORTON/HIGH KNOB	WA4NDQ	449.85	444.85	*	BLRT
OILVILLE	KB4MIC	449.80	444.80	*	P
#ONEIDA PEAK/BLF	WZ8E	448.625	443.625	N	UNCOORD.
PEARISBURG	N4AZJ	449.975	444.975	*	T103.5
PETERSBURG	WB4KZI	448.825	443.825	*	
PETERSBURG	K4ARO	449.40	444.40	N	T
PORTSMOUTH	KK4SN	449.00	444.00	D	AE
POWHATAN	KD4ADW	448.10	443.10	N	P
RICHMOND	KC4VDZ	447.30	442.30	N	
RICHMOND	N4LFU	448.35	443.35	D	
RICHMOND	K4ARO	449.85	444.85	N	
RICHMOND-ASHLAND	K4ARO	449.65	444.65	*	
ROANOKE	KA4YUY	447.175	442.175	*	
#ROANOKE AIRPORT	KD4EG	448.75	443.75	N	UNCOORD.
ROANOKE/POOR MT	W4CA	447.50	442.50	*	BEP
ROANOKE/POOR MT.	N4FHL	426.25	439.25	N	V
ROANOKE/POOR MT.	N4VG	447.70	442.70	*	
ROANOKE/POOR MT.	WB8BON	448.65	443.65	*	C
ROANOKE/TINKER MW	B8BON	449.925	444.925	*	B
SINGERS GLEN	K4SAD	449.60	444.60	M	MC
SMITHFIELD	N3ELM	448.55	443.55	*	BLPT100.0
SOUTH BOSTON	AB4YR	448.925	443.925	*	
SPRINGFIELD	WD4KHP	444.825	449.825	M	MT
STAFFORD	KB4OB	448.85	443.85	N	MBP
STAUNTON	WA4ZBP	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
STAUNTON/EL KNOB	WD4FOZ	449.10	444.10	*	T131.8
STERLING	WA4TXE	447.10	442.10	M	MLP
STERLING	WA4TXE	447.20	442.20	M	M
STUART/SPOON MTN	WA4WTB	449.175	444.175	*	RT107.2
STUARTS DRAFT	KB4OLM	449.05	444.05	*	BELP
THE PENTAGON	K4AF	449.55	444.55	N	MT
TYSONS CORNER	KM4FI	448.50	443.50	M	M
TYSONS CORNER	K4JYF	449.75	444.75	M	M
VIENNA	N4KOU	449.85	444.85	N	M
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	E
WAYNESBORO	KA5NOJ	439.25	426.25	*	V
WAYNESBORO	WA4EZA	449.20	444.20	*	BT141.3
WHITETOP MTN	KM4X	448.00	443.00	*	BT103.5
WILLIAMSBURG	W4NTG	448.95	443.95	*	O
WILLIAMSBURG	WB5LFS	449.10	444.10	*	BT
WILLIS	W4DUM	448.875	443.875	D	BT
WINCHESTER	NB3O	444.175	449.175	M	M
WINCHESTER	W3CSG	447.00	442.00	M	M
WOODBRIDGE	KA4DCS	444.875	449.875	M	M
WOODBRIDGE	N4LJZ	448.10	443.10	N	M
WOODBRIDGE	WB4FQR	449.90	444.90	M	M
WOODFORD	WA4SDE	443.975	448.975	M	M
WYTHEVILLE	WB3T	447.00	442.00	*	ABLRT103.5
WYTHEVILLE/SAND	WB3T	449.325	444.325	*	

920 MHZ

ALEXANDRIA	WA4CCF	907.60	919.60	M	M
FOREST	KB4OSI	909.00	921.00	*	
LYNCHBURG	WA1ZMS	909.10	921.10	*	
ROANOKE	KM4TT	908.90	920.90	*	P

1270 MHZ

ALEXANDRIA	WA4CCF	270.60	282.60	M	M
MCLEAN	K6LEW	272.10	292.10	N	M
ROANOKE/POOR MTN	WB4DBB	271.02	291.02	*	O
TYSONS CORNER	WR4S	272.00	292.00	M	MB

WEST VIRGINIA REPEATERS

(Listing updates for some repeaters courtesy of T-MARC)

10 METERS

BECKLEY/BOLT	KA8OTX	29.52	29.62	D	
BERKELEY SPRINGS	KK3L	29.52	29.62	M	ML
#CHARLESTON	WB8CQV	29.54	29.64	N	UNCOORD.

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	N	
#ST ALBAN/COAL MWD	8JKA	52.03	53.63	N	UNCOORD.

2 METERS

BARBOURSVILLE	KB8EHJ	146.46	441.00	*	L
BECKLEY/BOLT	N8FRV	144.57	145.17	D	AL
BECKLEY/EOC	KD8VS	144.77	145.37	D	A
BECKLEY/FLAT TOP	WA8WDK	146.25	146.85	D	L
BECKLEY/LAYLAND	WF1G	144.71	145.31	D	L
BERKELEY SPRINGS	KK3L	144.990	29.620	M	ML
BERKELEY SPRINGS	KK3L	146.145	146.745	M	MB
BLUEFIELD	W8MOP	144.89	145.49	*	P
BRIDGEPORT	WB8DKM	147.72	147.12	*	PT
BUCKHANNON	N8FHE	144.53	145.13	*	AL
BUCKHANNON	N8FHE	144.81	145.41	*	A
BUCKHANNON	WD8L	146.25	146.85	N	B
CHARLES TOWN	N8EIV	146.385	146.985	M	MT-NIGHT
CHARLESTON	WS8L	144.83	145.43	*	P
CHARLESTON	WB8IFS	146.22	146.82	N	AE
CLARKSBURG	N8FMD	146.085	146.685	*	L
CLARKSBURG	N8FMD	147.81	147.21	*	T103.5
CRAIGSVILLE	N8FMD	144.67	145.27	*	L
ELKINS	KB8BWZ	146.175	146.775	D	
FAIRMONT	W8SP	144.75	145.35	N	C
FLAT TOP/WINTRPL	WF1G	146.025	146.625	D	A
FRANKLIN	W3RUA	147.945	147.345	*	B
GASSAWAY	WB8MZI	146.01	146.61	N	
GLENVILLE	KA8ZXP	144.69	145.29	D	ABELR
GLENVILLE	KB8EUN	146.235	146.835	N	
GRAFTON	WD8LNB	147.975	147.375	*	
GRANTSVILLE	N8LGY	144.85	145.45	*	PE
HARRISVL/PENSBRO	WB8NSL	147.90	147.30	N	
HINTON	KB8EQC	147.855	147.255	*	AB
HORSEPEN MT	NV8H	147.795	147.195	D	PL
#HUNTINGTON	WB8FEQ	144.61	145.21	*	UNCOORD.
HUNTINGTON	W8VA	146.16	146.76	*	PEL
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	ER
LEON	WD8OHX	147.78	147.18	D	BP
LEWISBURG	WA8AVZ	146.13	146.73	D	P
LIBERTY	W8HYX	144.81	145.41	*	
#LOGAN	WA8ZLR	146.09	147.11	N	UNCOORD.
LOGAN/SUMERCO	NU8K	147.945	147.345	D	PL
LOGAN/WARD RK	MTKJ8E	146.37	146.97	D	PL
MARMET	K8HDB	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	MB

MORE WEST VIRGINIA REPEATERS

MARTINSBURG	WB8YZV	147.855	147.255	M	M
MCMECHEN	N8FQN	146.31	146.91	*	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	*	BLP
MORGANTOWN	KE8QC	147.675	147.075	*	AELRP
MT STORM	KA8JTH	147.705	147.105	N	PLER
MULLENS/HRNDN MTK	C8IT	147.63	147.03	D	R
NEW MARTINSVILE	KF8LL	146.385	146.985	N	AB
OAK HILL	W8OQC	146.19	146.79	*	E
PARKERSBURG	WV8G	144.89	145.49	*	AB
PARKERSBURG	WA8LLM	147.855	147.255	*	AB
PARKERSBURG	WA8CRW	147.99	147.39	*	B
PARKERSBURG (OH)	WA8CRW	146.37	146.97	N	A (OHIO)
PARSONS	KE8QC	144.73	145.33	*	BELRPT
PARSONS	K8VNQ	144.77	145.37	N	T107.2
PRINCETON	KA8PNC	146.46	147.06	*	P
PRINCETON	WB8NRK	147.825	147.225	*	
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	N	P
RAVENSWOOD	WD8JNU	146.10	146.70	N	R
RICHWOOD	WB8YJJ	144.59	145.19	D	B
RICHWOOD	W8FG	144.87	145.47	N	
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	WC8S	147.87	147.27	*	PEL
SHERRARD	KD8GL	146.115	146.715	*	EPL
SO. CHARLESTON	WB8CQV	146.28	146.88	N	L
SPENCER	WT8Z	147.705	147.105	N	
SPRUCE KNOB	N8HON	147.885	147.285	*	L
ST ALBANS	K8WMX	146.40	147.00	*	B
ST ALBANS	KA8SVR	147.75	147.15	D	BELRP
ST ALBANS	K8WMX	147.975	147.375	*	Y
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
TERRA ALTA	KD8ZR	147.60	147.00	*	AE
UPPER TRACT	KB8BUC	146.055	146.655	*	B
WEIRTON	W8CWO	146.34	146.94	D	ABEP
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	P
WESTON	WC8K	147.765	147.165	N	BR
WHEELING	WB8JGY	144.59	145.19	N	PL
WHEELING	W8ZQ	146.16	146.76	*	B
WILLIAMSON	WR8M	144.73	145.33	*	AR

220 MHZ

CHARLESTON	WB8YST	222.76	224.36	*	BRPT
FLAT TOP/WINTRPL	WF1G	222.52	224.12	D	A
#LEON	WD8OHX	222.18	223.78	N	UNCOORD.
#WILLIAMSON	WR8M	222.54	224.14	*	UNCOORD.

ALDERSON	WF1G	449.40	444.40	D	OA
BECKLEY/BOLT	AA8BS	447.30	442.30	D	RB
BECKLEY/KINGSTON	WF1G	449.80	444.80	D	R
BUCKHANNON	N8FHE	448.10	443.10	*	L
BUCKHANNON	WV8Y	449.50	444.50	N	BR
CHARLESTON	KB4BNW	449.75	444.75	D	
CLARKSBURG	N8FMD	449.175	444.175	*	T103.5
GLENVILLE	KA8ZXP	449.325	444.325	N	
#HUNTINGTON	W8VA	447.60	442.60	*	UNCOORD.
HUNTINGTON	WB8EZR	448.00	443.00	*	
KEENY MTN	KF8FO	449.725	444.725	*	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	BLP
MULLENS/HRNDN MTK	C8IT	449.00	444.00	D	LR
PARKERSBURG	WV8G	449.775	444.775	*	BC
SO. CHARLESTON	WB8CQV	449.95	444.95	N	RL
ST. ALBANS	K8MHR	448.15	443.15	N	BELP
WESTON	N8FIP	448.975	443.975	N	BR
WESTON	WC8K	449.60	444.60	N	C

FULL MEMBERSHIP Dues Increase on April 1st. Full Year rate goes to $20.00 - Jan 1 thru Dec. 31.
To Join for the Second Quarter to Dec. 31. - Mail Application to be received by March 31 and Pay $12.00
Applications received AFTER April 1 must be accompanied by a $15.00 check for remainder of 1993.
Applications received after Apr. 1, with insufficient funds ($12) will be prorated thru 3rd Quarter '93 only.

SouthEastern Repeater Association, Inc.

Full Repeater Membership Application

Join or Renew Full Membership for your Repeater(s) for rest of Calendar 1993 - See note above for dues.

Please fill out the Full Member Application. Maximum number of letters for your repeater Name is 14 characters. Be sure to list 2 persons as representatives. ONLY these two will be SERA reps and receive the Repeater Journal. MAIL YOUR CHECK AND APPLICATION TO: SERA MEMBERSHIP, P.O. BOX 215, TOBACCOVILLE, N.C. 27050

	CITY/MTN. ETC. (MAX 14 CHAR)	RPTR CALLSIGN	INPUT FREQ.	OUTPUT FREQ.
REP. #1				
REP. #2				
REP. #3				
REP. #4				

USE AS MANY LINES ABOVE AS YOU HAVE REPEATERS. IF MORE SPACE NEEDED, USE SEPARATE SHEET OF PAPER.

Name Two Persons Who Will Represent SERA as Full Members. Each Will Receive the Repeater Journal.

NAME_____ CALL_____ NAME_____ CALL_____

ADDRESS_____ ADDRESS_____

CITY_____ STATE____ ZIP_____ CITY_____ STATE____ ZIP_____

PHONE: ( )_____ PHONE: ( )_____

ARRL MEMBER: ( ) YES ( ) NO ARRL MEMBER: ( ) YES ( ) NO

FULL MEMBERSHIP: ( ) NEW ( ) RENEWAL FEE IS ENCLOSED- AMOUNT : $_____

REPEATER IS SPONSORED BY: (Name of Club or owner) _____

REPEATER TRUSTEE'S NAME: _____ CALL _____

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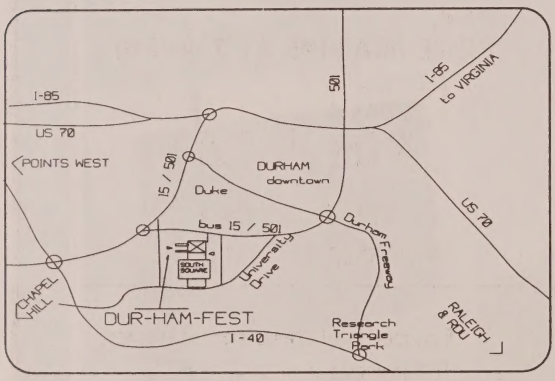

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Sunday March 28, 1993

8:00 A.M. Till 3:00 P.M.

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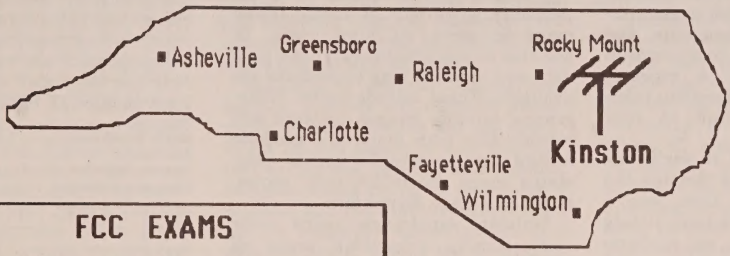

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Economical meal available on the grounds.
Refreshments available!

LOCAL REPEATERS:
Greenville 147.09 Goldsboro 146.85 Kinston 145.47
145.35 New Bern 146.61

LOCATION: Lenoir County Fair Grounds
Hwy 11 South Follow Signs from
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Tables available. First come first served.

For Hamfest Information Call:
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Where Is Your Repeater?

-by Dave Shiplett, AC4MU
President of SERA

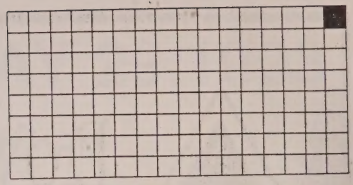
Where is your repeater site located? This simple request seems to be the hardest piece of information for repeater trustees to answer. So some of you will sleep better, SERA does not publish this information. It is not given out to anyone other than the frequency coordinator and the person entering the information in our database. When repeater update information is supplied to the ARRL, for the annual repeater directory, latitude and longitude is NOT given to them. We do use the information in conjunction with computer programs and calculators when trying to squeeze in or heaven-forbid deny a repeater request. Accurate site location information is very important to your coordinator.

Recently I attempted to verify my site coordinates. Looking through the Perry, Georgia, phone book was a waste of time. I called a local survey company and they gave me a phone number in Atlanta, Georgia, where they purchase topographical maps. After one call to this office, some help from a clerk and some money, I had the map I needed.

Although that was easy, I have discovered an even better source. The U.S. Department of the Interior, U.S. Geological Survey, Earth Science Information Center (ESIC) has some neat information available. Their toll free phone number is 1-800- USA-MAPS. Two separate booklets, 1) Index to Topographic and Other Map Coverage, and 2) Catalog of Topographic and Other Published Maps are available free to help you in your quest. In the Catalog of Topographic and Other Published Maps I was able to locate a local store that sold topographic maps.

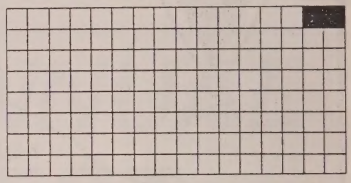
The National Mapping Program publishes a variety of multipurpose maps to serve all map users. In addition to published maps, basic map data and open-file map byproducts are available. These include aerial photographs, satellite images, advance and reproducible map materials, geodetic control data, geographic-names data, status maps, microfilm map copies, and map data in digital form.

Standard quadrangle maps cover systematically subdivided areas of latitude and longitude, and are published at various scales depending on the size of the are mapped. Standard formats range from 7.5x7.5 minutes to 1x2 degrees. The amount of detail shown on a map is proportionate to the scale of the map.



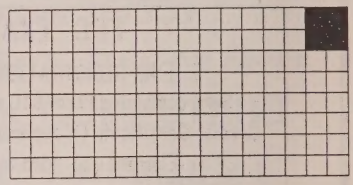
7.5 MINUTE SERIES

Map scale[1]	1:24 000
Map to ground ratio	1 inch represents 2000 feet
Area covered	49 – 71 square miles
Paper size (approx.)	22"x27"
Contours and elevations[2]	shown in feet



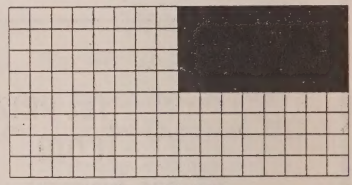
7.5 X 15 MINUTE SERIES

Map scale	1:25 000
Map to ground ratio	1 inch represents 2083 feet
Area covered	100 – 140 square miles
Paper size (approx.)	24"x40"
Contours and elevations	shown in meters



15 MINUTE SERIES

Map scale[3]	1:62 500
Map to ground ratio	1 inch represents about 1 mile
Area covered	197 – 282 square miles
Paper size (approx.)	18"x22"
Contours and elevations[2]	shown in feet



30 X 60 MINUTE SERIES

Map scale	1:100 000
Map to ground ratio	1 inch represents 1.6 miles
Area covered	1578 – 2167 square miles
Paper size (approx.)	29"x44"
Contours and elevations	shown in meters

1 X 2 DEGREE SERIES

Map scale	1:250 000
Map to ground ratio	1 inch represents about 4 miles
Area covered	4580 – 8669 square miles
Paper size (approx.)	22"x32"
Contours and elevations[2]	shown in feet

[1]1:25 000 scale on selected maps
[2]Shown in meters on selected maps
[3]1:50 000 scale on selected maps

Continued on Page 43

The PacComm TINY-2

TINY-2 - 5 x 7 x 1-3/8-in. 18 oz. Medium Gray Extruded Aluminum Case

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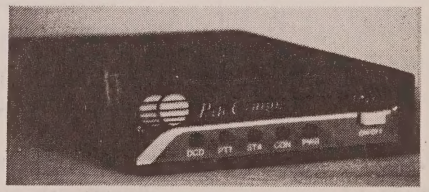

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Where Is Your Repeater?

Continued from Page 42

The ESIC has available on microfiche or computer tape a geographic names information system. One product the National Gazetteer of the United States of America is a compendium of placenames that identifies and describes manufactured and natural features in the United States. Gazetteer information is drawn from USGS topographic maps, other Federal and State materials, and from all available historical maps. Variant spellings of names are included, making the gazetteers a reference tool for historians, linguists, journalists, genealogist, cartographers, and hams looking for detailed map information. I ordered a copy of the U.S. topographical map names data base and the National Gazetteer on microfiche ($2.00 apiece) and was amazed at the information included. I found an old church in my neighborhood that was listed with latitude and longitude. Even mountain top names where many Georgia repeater were listed withlatitude and longitude. A friend of mine discovered an old civil war town that was not listed on current state maps.

The ESIC also had a template (interpolation grid for USGS quadrangle maps) available that you can lay on a 7.5x7.5 minute map to accurately locate degrees, minutes and seconds of any location on that map. By using this template I was able to pinpoint my repeater site very easily.

I also checked with our public library and found they had on file some topographic maps of our area. An overlooked publication found in most libraries is the United States or World Atlas. One item of caution when using the latitude and longitude from an atlas is to make sure you are using the correct notation (degrees, minutes, and seconds or decimal) 52,23 and 52.23 may or may not be the same thing. I found through comparison of Perry, Georgia's latitude and longitude that the reference that appeared to be given in decimal was really degrees and minutes.

Speaking of decimal degrees and degrees, minutes and seconds, please verify which reference you are using. SERA records maintain your information as degrees, minutes and seconds. Recently I was trying to coordinate a repeater and the information provided put the repeater's actual location in a different state. Seems the individual had filled in a decimal equivalent entry into the degrees, minutes and seconds field. If you need to convert decimal degrees to degrees, minutes and seconds, or vice-versa, here's and easy way to do it:

Problem: convert 38.55611 degrees to degrees, minutes, seconds:

Degrees = Integer part of DDD.DDDDD = 38 degrees

Minutes = Integer part of 60 * fractional part of the Degrees

calculation: 60 * .55611 = 33.36666 = 33 minutes

Seconds = Integer part of 60 * fractional part of the Minutes

calculation: 60 * .36666 = 22 seconds

Therefore: 38.55611 = 38 degrees, 33 minutes, 22 seconds

Problem: convert 38 degrees, 33 minutes, 22 seconds to decimal degrees:

38 degrees = 38.00000 degrees

+ 33 minutes / 60 = 0.55000 degrees

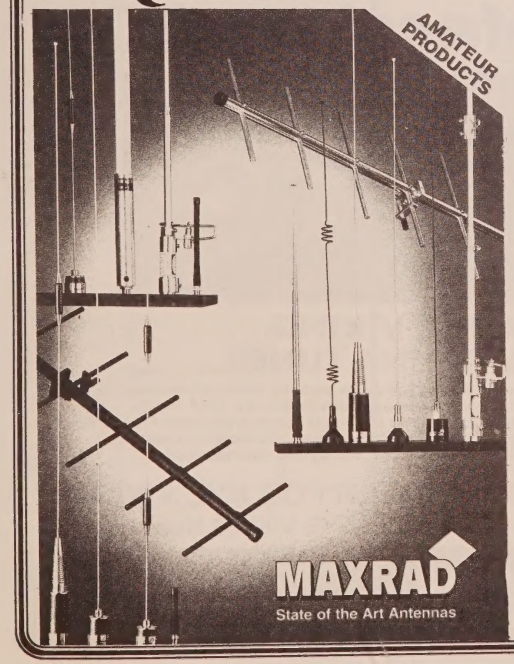
+ 22 seconds / 3600 = 0.00611 degrees

Total 38.55611 degrees

Therefore: 38 degrees, 33 minutes, 22 seconds = 38.55611

The task of completing the block concerning repeater location is not difficult. Information is only a phone call away and is very inexpensive. When all else fails call your SERA Director or one of his assistants. If SERA is to assist you in resolving interference problems, adjacent and same frequency problems, we need to know where your repeater is actually located. Although we cannot coordinate a repeater without this information, there are still many data sheets being returned without this very important item completed. Help us to help you.

QUALITY IS AFFORDABLE...



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WEST VIRGINIA NOTES

-by Ted Wolfe, WD4KHL

Send News To: P.O. Box 133, Cabin Creek, WV 25035

This February column was written between Christmas Day 1992 and New Year's Day 1993. And as an experiment it is being submitted to the editor on computer disk. I operate a Commodore C-64 which is incompatible, so on the 30th of December, Tiny, N8MFV, permitted me to type this into his computer and make a disk for me.

*****

Beginning on 15 December about 30 hams belonging to the St. Albans Emergency Services Amateur Radio group participated for 14 nights in the St. Albans Park and Recreation Commission's annual "Festival of Lights" at the city park. This was the fifth year for the project and as of the 27th Doug Sweeney, N8AJC, reported that $13,000 had been collected, compared to $10,000 last year--with all money collected to be ploughed back to the Parks and Recreation department for more lights and an expanded sound system for next year. Doug said he had recorded license plates from 34 different states this year.

Santa brought Doug a new 16-channel programmable scanner for his pickup truck. He is an auxiliary police officer for the St. Albans Police Department. Doug lives in South Charleston.

*****

Sam Moore, W8NCD, celebrated his 79th birthday on Dec 13. Incidentally, he provided me with spare copies so I am sending three of the photos that were supposed to accompany my story of Sam's adventure during the summer of '92 in Alaska. If the editor has room perhaps he may include them this issue. Sorry, I do not have duplicates of the other photos provided by story sources which were lost in preparation of the November issue. But if you have picutres of any of your club's activities send them along to me for a future issue of the Joaurnal. Sam's grandson, Jason, AA8HU, received a 2-meter hand held rig for Christmas. Sam spent the holiday period at his daughter's home in northern Virginia.

*****

Bill Hunter, K8BS, is scheduled for heart by-pass surgery this week. I will probably have to delay any report of the outcome until the next issue as I am writing on deadline.

*****

I broke down an purchased an HTX-100 ten meter CW-SSB rig for Christmas--my present to myself. But I do not have an antenna in the air yet. I'll probably get one on the pickup before I get one up for use at the QTH. For the latter I will probably put up the antenna given me by John Tucker, WD8MEL, of Grimm's Landing in Mason County. John recently sold his 10-meter rig so the antenna was surplus to him and he brought it along for me just before Christmas when he came to my house to see my Digicom packet setup and discuss the packet equipment he has ordered and hopes to have on the air early in the new year.

*****

West Virginia Amateur Radio, Inc., held its annual Christmas dinner at Dwight's Restaurant at the Hurricane exit of I-64 on Friday night, Dec 18. The weatherman was cooperative--no bad weather that night. I counted at least 42 attendees. I might have missed one or two. They had to set up extra tables for the late arrivals in the room the club had reserved. I recouped the cost of the dinner by winning one of the door prizes--a propane soldering iron.

Danny Danner, K8WOG, had his hand held rig, a laptop computer, and his new BAYCOM modem set up for a packet demonstration in one corner of the room.

*****

The Kanawha ARC's annual installation of new officers dinner was to be held at Rose City Cafeteria in South Charleston on Jan 9. I will have to write up that next issue as I do not know who the new officers for 1993 will be at this time.

*****

The December 1992 newsletter for TARA, the Tri-State Amateur Radio Association, reported the election of new officers for that club for the new year. They are: Jim Wright, KD8WX, president; Doug Overla, AA8AR, vice president; Carl Aiken, KB8EHJ, secretary; and Georgia Overby, KA8QME, treasurer.

*****

Bruce James, KB8KAC, is enrolled at the West Virginia Rehabilitation Center in Institute and is taking some classes in business and computers. So far he hasn't got a packet station in operation from his room, and late night voice QSOs are out in consideration of his roommate. If you think life is regimented there, Bruce, try one of the military services, hi!

*****

Tom Murcock, K8IXO, in early December went out to the Loudendale area of Charleston to help Jerry LaPere, N8URQ, put up an outside antenna after Jerry purchased a new Kenwood HF rig. I drove out, too, and visited Jerry's QTH for the first time. Jerry and Tom are regular members of our ***"Late Night, High Wind, Smokeblowers net"*** nightly at 11:30p.m. on the St. Albans 7.15 repeater.

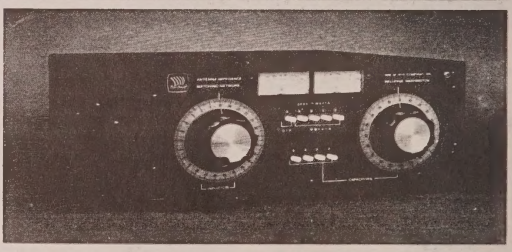
*****

As of September, the KARC had 105 members on its roster. The 9-year old daughter, Holly, of 1992 KARC president Hal Turley, KC8FS, was awaiting the arrival of her Tech Plus ticket following an intensive course of study and tutoring by her father.

Recent new members of KARC are: Richard Marker, AA8IM; Dave Ellis, WB8MBH; Karl Yeager, KB8LMW; Kim Yeager, N8NUH; Brad Young, N8UEP; and Thomas Wills, N8RZH.

Continued on Page 45

The Choice of Professionals



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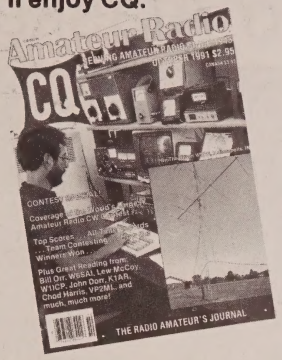

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WEST VIRGINIA NOTES CONTINUED

Garry White, WD8OMB, and his sister spent the last week of the year visiting their brother, Shirley, in West Columbia, SC. Garry's wife had to work that week so she didn't go. Garry and I had visited Shirl this past summer. At that time Shirl lived in an apartment. Since then he has moved further into the country into a single-family dwelling with room in the yard for some antennas. As I write none of those antennas are up. Maybe with help from Garry during the visit maybe they got an antenna or two up.

*****

Doug, N8AJC, tells me Jimmy Hewlett, WB8MKS, now has two teenage hams in the family. Jimmy's son, Jason, a general class licensee has his ticket about two years and holds the callsign KB8IXZ. Daughter "Minnie" has just been licensed with call KB8NNK. Sorry, I forgot to write down her class of license when Doug passed the info along.

*****

The WC8S 147.87/.27 repeater at Scott Depot on 12/28/92 activated another feature made possible with its ACC RC-850 controller. A "369" touchtone sequence brings up the time of day announcement. The outside temperature sensor was only recently installed. Also, now on the hour every hour, 24-times a day, the repeater broadcasts the time and temperature prior to an ID. Instructions are being mailed to the membership explaining how to use the BBS function which will require members to enter their code to leave and retrieve standard messages. As this was written, that feature was not yet operational.

*****

I have also been told that Johnny Jones, WB8CQV, has just added an RC-850 controller to his 146.28/.88 repeater in Charleston. And Phil, K8MHR, and Danny, K8WOG, told me the Huntington WB8EZR 146.14/.64 repeater has added a 440-meter remote base capability.

The KA8SVR 147.75/.15 repeater was recently rebuilt by Ralph Langley. A new 100-watt amplifier is now in operation on the machine.

*****

I just noticed that I missed a couple of other new members of KARC listed in the club's November "Splatter." They are: Jerry LaPere, N8URQ; Alan Williams, N8JTG; and Terry North, WB8IFS, and Johnny Jones, WB8CQV. The latter two were by "executive decree" granted honorary membership in KARC through 1993 in recognition of their major committments to resources in recent years in maintaining VHF repeaters, digipeaters, packet nodes, and a BBS for use of local amateurs.

*****

Lynn, AI8I, got in at deadline by sending his news to me via packet. He reported the SWVARC held elections in November and new officers to serve for the coming year are: Gary Bostic, WV8D, president; Herb Montgomery, KB8NWS, vice president; Paul Herr, KD8WY, secretary-treasurer. Trustees selected are; Charlie Berry, K8DRK; and Noarman Loudermilk, WA8AVZ.

The club has a new 440 repeater at the same site as the 146.73 Mhz repeater. The UHF frequency is 444.725-UP. During 1992 the club worked the *St. Jude bikethon* and the Boy Scouts *"Jamboree On The Air."* The club's packet node, LSBG;WB8DMS-1 has been operating without incident and provides good coverage to the western part of the state.

The SWVARC membership is considering financing a DAREN node for the county as money becomes available.

*****

I had better not forget to mention this issue the great success Bob Adams, N9DMK, has had with the regular Wednesday night ARES/INFORMATION SWAP SHOP NET at 9:00 p.m. on the West Virginia Amateur Radio club's WC8S, 147.87/.27 St. Albans repeater and associated other linked machines.

Bob is entering his fourth year as Net Control. The greatest number of check-ins for any one session was 127. There's an ARES section to the net, and information section, and--most popular--the swap section where area hams list items they want or have for sale or swap. The most listings in a session was twenty-four, according to Tiny, N8MFV, who filled me in on some of the info.

The net is usually on a system of linked repeaters including 146.64 in the Huntington area, a 224.14 and 145.33 repeater in Williamson, plus others in Phelps, Ky. At one time 13 repeaters were linked for the net. Recently a couple of the remote bases have been down.

In early December during a time of unsettled weather, Bob featured a telephone hookup with a forecaster from the NWS office at Yaeger Airport in Charleston. The weatherman fielded questions from some of the hams on the net that night.

*****

When I sit down to begin writing the column I often fear I won't have enough material to fill the usual ten typed pages I send to the editor. But once I get underway, the material seems to just keep coming.

This issue I do not have enough packet material to justify a separate section, so packet has been folded into the regular column for now. During December Bill Houser, WB4OKG, and I lost our keyboard-to-keyboard path from Cabin Creek, WV , to Asheville, NC.

That was due, I suppose, to a change in propagation. Also I have been told that MARS node at Mars Hill, one we used in our path, has changed frequency and has become a ROSE switch. I still can't access the ROSE network via the Bluff City or Knoxville, TN, Rose switches.

*****

Finally--after Christmas transients talked to via simplex or on an area repeater as they passed through the area: there were two from Fort Bragg, NC -- KC4WPG and KA4CZL (the latter a deejay on one of the commercial stations there); Dick, KB5RWD, a native of Barboursville back in the area for a visit from his present QTH in Houston, Tx; and Mike, KC4WUH, Raleigh, NC.

Photos from "North To Alaska"

During a stop in Achorage, Sam, W8NCD ran into a ham there that invited him to his shack to operate. That's NL7VR on the left as he gives Sam a quick tour of his shack. (Photo supplied by W8NCD) This series of photos are replacements for those lost which had accompanied the "North to Alaska story by Ted Wolfe in the last Journal.

Sam, W8NCD poses with "Mighty Mo," a character along the route to Alaska. Mo, who operated a roadside campground, told Sam he had once been a millionaire. He permitted Sam to leave behind one of his radio license plates on the structure behind the two. (Photo supplied by W8NCD)

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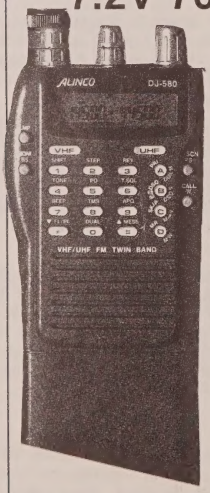

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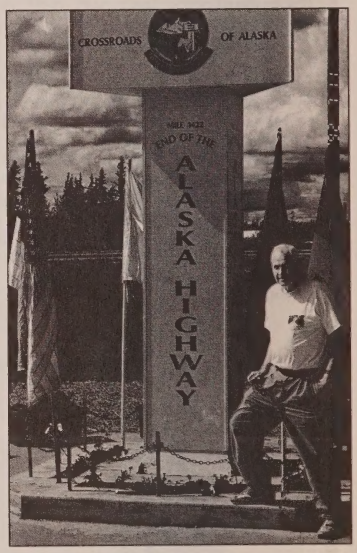

Here is Sam Moore, W8NCD, at the Alaska end of the Alaska highway, during his Summer '92 solo sojourn by pickup truck. (Photo by W8NCD)

Give Fellow Hams A Break

If you're operating voice FM, stay in the voice simplex frequencies.

If you are operating Packet or digital, stay in the digital frequencies.

If you're operating on repeaters, use only what power and antennas necessary to access your own repeater.

There's very much interference being caused by Hams not honoring these conditions and parts of the band. Let's be good Ham neighbors, and keep the bands fun for everyone.

NORTH CAROLINA NEWS

-by Gene Fegely, K3EJG

Send News To: 115 Randomwood Lane, New Bern, NC 28562

Belated holiday greetings to all I may have missed on one of the nets I tried to reach during the end of the year. May the New Year bring prosperity and happiness to you and yours.

CCEN Christmas Party

Missed the Coastal Carolina Emergency Net Christmas Party this year due to a short stay with a long heart catheter in Pitt Hospital right after Thanksgiving. However, their party was typically enjoyed by all who attended, according to the many reports received.

Andy, W4ULD, and Tex, W4RHU, handled reservations and co-hosted the hospitality suite in Morehead City on Saturday afternoon, Dec 5th. Andy also presented the Second Albert Parker Award to Weldon Fields, W4AJT. (see pix) Weldon has been net control and an active net member for many years.

The Parker Award is a permanent plaque honoring a "cooperative, understanding, patient, member of the net" who is interested in emergency, health and welfare traffic. As a regular participant, the award winner should help in all phases of Amateur Radio as a hobby and service to his fellow man. The award is a memorial to Al Parker, W4BAW, who was the major influence in founding the CCEN.

NBARC Starts Newsletter

The New Bern ARC decided not to have a Christmas Party this year, but has launched a Newsletter as a project to keep the membership better informed and active. Your correspondent has been appointed the editor of the publication, called the NewBARCer.

Officers for the NBARC for the coming year will be President Danny Garris, KJ4FH; Vice-president Ray Hemphill, KI4SJ; Secy-treasurer Charlie Gould, KC3SB; Membership Chair Bill Aven, KO4AH; Trustee Tommie Phelps, WA4EME.

The club also reports their VE team will conduct exams bimonthly at the New Bern High School, Route 17 about 2 miles south of Route 70, on January 23, March 27, and June 5. Exams begin at 9 AM.

One of the original members of their VE team, Chuck Fields, N4KDM, and his wife Doris, KA3KEY, recently moved to a life care facility in Durham. Doris was club secretary for many years, and served as official greeter and attendance recorder at the monthly meetings.

A Chicken Stew?

High Point ARC's Newsletter reports on an interesting October activity for club members--a "Chicken Stew" dinner. Held at President Clyde, KA4PHW, and Secretary Jo, KC4MKY, Young's home in Trinity, this was billed as the last eating event of the year by Newsletter Editor Mark McMahan, KB4MFP.

Mark also reports on a nominating committee selection -- I wonder if the incoming officers will have to promise a steak or lobster event to top the October feast? Anyway, at this writing I haven't received the latest as to new officers for the club. Maybe they ate too much?

The club meets the first Monday of each month at the Western Steer on Fairfield Road, High Point. Dinner at 6:30 PM, meeting begins at 7:30 PM. Non-members and visitors are invited to their interesting programs.

TEARA Election

The Triangle East ARC sent an election ballot, but at this writing I don't have the results, except that President Dave Hockaday, WB4IUY, was unopposed. The club operated N4SXG on December 23 and 24th as a commemoration of the 70th anniversary of the birth of Ava Gardner.

The club meets every third Thursday at Truckstops of America, I-95 Exit 106, at 7:00 PM. According to their announcement, you should come early if you want to eat!! Does this mean they clean out the food because they're so hungry?? I guess Hams are the eatingest group I know!

Andy Griffith, W4ULD, presents the Albert Parker W4BAW Award to Weldon Fields, W4AJT, at the Coastal Carolina EC Net's Christmas Party held in Morehead City, December 5th. Also in the picture are Tex Harper, W4RHU, Andy's XYL Helen and MIss Welma Harman, K4RYJ. Picture taken by Joe Melton, WB4SLF.

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NORTH CAROLINA NEWS CONTINUED

Onslow County Exams

Jacksonville area Volunteer Examiners have scheduled exams monthly on the last Tuesday at 7 PM in the Blue Creek Elementary School, Route 53 about one-quarter mile from Route 258. Mark your calendars for February 23, March 30, and April 27.

For further information contact Tom Hill, KJ4IV (919-326-4536), or Mike Sainier. KO4NN (919-455-5835). It is also noted that exam fees will be going up to $5.60 in 1993.

Pete Koonce, KA4SXX, and Sid Purvis, WA4VBC, look over Wil Landis, K1VJQ, as he operates the portable packet station set up by Gene Fegely, K3EJG, (the picture-taker) at the NBARC Field Day site at the Blackbeard Sailing Club in Fairfield Harbour, New Bern.

It's a bargain at any cost.

Upgrade In 3 Months

Smithfield was the location of an amazing story for Robert Earl Jones, KD4KLL, as he completed his exam for Amateur Extra at their VE session in October. What's so remarkable? Well, Bob did it in a little over three months, beginning with his no-code in August at Maysville!

This last news item came via packet on K3EJG-1. Since this is a non-profit activity for me, I think the amateur bands can be used to send me similar articles. The address is K3EJG@WB4UOU.NC.

Rutherford County ARC Holds Fallfest 1992

-by Garry Foster, WD8OXE

The Rutherford County Amateur Radio Club held it's first Fallfest'92 on October 31st, 1992 at the North Carolina National Guard Armory in Spindale, N.C.

This was the first Hamfest in the area in 35 years and attended by an average of 200 Hams. There were four major dealers in attendance as well as flea market vendors. The club had no idea how many Hams to expect and were pleased with the turnout. Hams from as faraway as Carrolton, GA. and Fancygap, VA. attended.

Plans are already confirmed to hold Fallfest '93 on October 30th at the same location.

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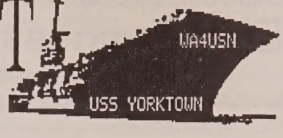

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Talkin:	146.19/79 Mhz. Other repeaters 144.65/145.25 Mhz and 147.87/27 Mhz
Facilities:	Large indoor area with 10,000 square feet of show room.
Tables:	Pre-registration $8.00. At the door $10.00. IF AVAILABLE

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Activities: BINGO for YL's, XYL's and HARMONICS.

Prizes: Grand Prize: $400.00 Second Prize: $200.00
Third Prize: $100.00 You do not need to be present to win.

Volunteer Exams: VE exams will be given on the campus of Trident Technical College. Please bring original and a copy of your amateur license, any CSCE's you have, two ID's, one with a photo. All testing will be on a **WALK-IN** basis only and will begin at 11:00 AM. For further information, call (803) 871-4368 or (803) 572-1164.

For more Hamfest information call Jenny Myers at (803) 747-2324 or Linwood Sikes at (803) 556-5566.

To Pre-register Tables:
Fill out the form on the back of this flyer.
Send a check to Jenny Myers WA4NGV made out to "C.A.R.S. Hamfest Committee".
The fee is $8.00 per table.
Tables may be available at the door for a fee of $10.00 but **Can Not** be guaranteed.

News About Repeaters & Coordination

East Tennessee Repeater News

-by Tim Berry, WB4GBI, Tennessee SERA Vice-Director

OOPS! I Goofed! Let me apologize for not having an article in the past two Repeater Journals. I let something called "work" get in the way of my hobby....seems as though every time a publishing deadline rolled around, I was in the middle of a major project at the Radio Station I am employed at. I promise not to do it again...don't fire me...I need this job.....

Since it has been a while, there has been quite a lot of repeater activity in East Tennessee. Here is a report of repeater activity in East Tennessee for 1992:

* * * * *

Randy Stephens, KC4PDQ, has changed frequency and location of his 440 repeater. The new frequency is 449.075/444.075, and it is now on the air from high atop the Chilhowee Mountain Range near Look Rock. Randy has the only 440 Mhz autopatch in the Knoxville area at this time, covering the Knoxville and Maryville phone exchanges. Coverage is excellent in and around the Knoxville area.

* * * * *

The Plateau Amateur Radio Club in Crossville coordinated and placed in service a new two meter repeater this Summer. This repeater is located just South of Crossville, and is on 146.205/146.805 Mhz. Ron Witt, AC4AA, is trustee. This repeater is presently involved in a frequency change, and I will report on the new frequency next time.

* * * * *

Doug Estep, N4UAG, has coordinated a new 440 Mhz repeater for the Knoxville Area. This repeater will be located on Cross Mountain, alongside the 224.22 Mhz and 147.195 Mhz machines. If the coverage of those repeaters is any indication, this one should be a dandy as well. The frequency of the N4UAG repeater is 448.075/443.075 Mhz.

* * * * *

Steve Shupe, KC4NNN, has also coordinated a new 440 Mhz repeater. When Steve finishes work at his site, the 449.175/444.175 Mhz repeater will be located just North of Knoxville off Interstate 75. Steve says he will have an open autopatch on this machine. Join me in wishing Steve good luck on his new repeater.

* * * * *

The Cleveland Amateur Radio Club has coordinated and placed on the air a new 440 Mhz repeater. The 449.275/444.275 repeater is located at the Clubhouse (ain't that great- they have a clubhouse!) and the callsign on the repeater is the club call, W4GZX.

* * * * *

The 145.25 Mhz WB4BRV in Erwin repeater has a new frequency. The repeater was re-coordinated to 147.765/147.165 Mhz in October. The frequency change was necessary due to a cable TV interference problem.

* * * * *

Jim Sayne, KD4IBW, has coordinated 448.675/443.675 Mhz for his new 440 machine in Knoxville. The repeater is on the air at Jim's residence, but I understand a new site is on the way.

* * * * *

The Maryville Amateur Radio Club has coordinated 146.055/146.655 Mhz for a new repeater to be located at the Reservoir Hill Water Tank in Alcoa. The repeater is still under construction at this time, but upon completion it will have an open autopatch and emergency power. More on this new machine later.

* * * * *

Doug Gibson, KD4HZN, has coordinated 147.915/147.315 Mhz for a repeater in Rogersville. This repeater is linked to 224.64 on Clinch Mountain. This is the only local coverage repeater in this area, and does an excellent job. A new site may be in the offing for this repeater, more on that next time.

* * * * *

Andy Zorca, WJ9J, has placed the 447.075/442.075 Mhz repeater on the air at Lone Mountain near Chattanooga. This repeater is linked to Andy's 444.450 Mhz repeater in Soddy-Daisy.

* * * * *

Benny Peterson, WB4SQC, has moved

Continued on Page 52

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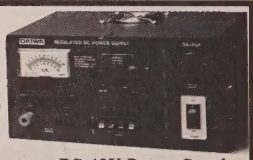

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SERA ANNUAL FINANCIAL STATEMENT

-by Ray Adams, N4BAQ, Treasurer

FINANCIAL REPORT FOR CALENDAR YEARS 1988, 1989, 1990, 1991 AND 1992

Dues	$6/$15	$6/$15	$6/$15	$6/$15	$6/$15
REVENUES	1988	1989	1990	1991	1992
Advertising	$ 8,372.00	$10,838.50	$13,606.30	$11,928.15	$14,417.75
Associate membership dues	13,617.50	13,826.25	10,861.50	12,451.00	15,098.65
Full membership dues	5,972.50	5,336.00	8,122.50	9,659.00	6,840.25
Decals	116.50	31.00	123.00	240.75	70.00
Postage - includes HOT-P	180.00	238.50	236.50	276.75	355.50
Interest	526.52	277.26	432.31	480.98	378.53
Hats	47.50	- 0 -	- 0 -	- 0 -	- 0 -
Contributions	45.00	336.40	100.00	50.00	200.00
Other	12.00	196.25	224.00	300.00	325.75
	$28,889.52	$31,080.16	$33,706.11	$35,386.63	$37,686.43
EXPENSES					
Journal distribution	$ 2,777.70	$ 3,807.79	$ 3,145.14	$ 4,066.59	$ 5,018.94
Journal production	20,703.90	20,869.73	18,532.47	17,341.75	25,876.87
Miscellaneous	199.56	153.75	147.84	96.61	- 0 -
Travel and meetings	1,241.72	2,424.98	1,469.98	847.86	2,561.45
Office expenses	367.96	1,051.70	728.97	1,478.96	1,261.05
Ammortization of office equipment	862.24	1,125.90	1,322.52	2,059.43	2,078.44
Postage - other than journal	1,153.74	1,696.36	1,735.72	2,372.71	3,135.27
Printing - other than journal	1,115.57	515.12	1,350.43	263.99	809.50
Telephone	995.83	494.04	753.91	1,439.22	1,570.05
	$29,418.22	$32,139.37	$29,186.98	$29,967.12	$42,311.57
REVENUE OVER (UNDER) EXPENSES	($ 528.70)	($ 1,059.21)	$ 4,519.13	$ 5,419.51	($ 4,625.14)
Balances, beginning of year:					
Expenses advanced	$ 900.00	$ 900.00	$ 900.00	$ 900.00	$ 900.00
Invested in office equipment	1,696.00	3,026.00	3,203.60	2,749.00	4,340.50
Cash in bank	7,252.05	5,393.35	4,156.54	9,130.27	12,958.28
	$ 9,848.05	$ 9,319.35	$ 8,260.14	$12,779.27	$18,198.78
EQUITY TO ACCOUNT FOR	$ 9,319.35	$ 8,260.14	$12,779.27	$18,198.78	$13,573.64
Less balances, end of year					
Expenses advanced	$ 900.00	$ 900.00	$ 900.00	$ 900.00	$ 900.00
Invested in office equipment	3,026.00	3,203.60	2,749.00	4,340.50	4,475.00
	$ 3,926.00	$ 4,103.60	$ 3,649.00	$ 5,240.50	$ 5,375.00
CASH IN BANK	$ 5,393.35	$ 4,156.54	$ 9,130.27	$12,958.28	$ 8,198.64

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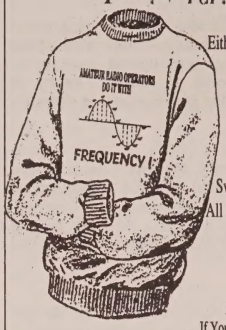

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Tennessee Repeater News

Continued from Page 50

the 144.69/145.29 Mhz repeater back home to Holston Mountain. This wide area coverage repeater was moved back to its 4200' AMSL home in March. Benny is planning a 220 Mhz repeater at that site also, stay tuned.

*****

Richard Steward, N4UBR, has coordinated 447.300/442.300 Mhz for a repeater to be located on the Tennessee Tech Campus. Richard tells me that this repeater will be linked to the TVARN network in Middle Tennessee.

*****

Bill Jacobs, KD4CLA, has coordinated 449.925/444.925 Mhz for his new repeater in Sevier County. This repeater has coverage in the Knoxville area as well.

*****

Ernie Johnson, KD4NEB, has coordinated 447.450/442.450 Mhz for his new repeater in Cleveland. This repeater is co-located with a local broadcast station, and sports an autopatch as well as emergency power backup.

*****

Steve Marrow, WD4GYN, has placed on the air a new SIX METER repeater. The first new six meter repeater in this area in a long time is on 52.11/53.11 Mhz. Grateful six meter buffs (like me!) appreciate ANY six meter repeater! Steve's repeater is located at the highest elevation in Oak Ridge.

*****

Tony McCarrell, KB4PIO, has placed a new repeater on the air on Chilhowee Mountain at Look Rock. The repeater is on 146.085/146.685 Mhz, and has a CTCSS (that's PL for all you Motorola types, channel guard for all us GE types) of 88.5 hz.

*****

Remember, as the spectrum becomes more crowded, more repeaters are using CTCSS on their repeater receivers. This does NOT mean the repeaters are closed- especially when the tone frequency is publicized!

*****

Last, but not least- the WB4GBI 147.675/147.075 Mhz repeater has a new site, and a new antenna as well! The repeater was moved in December due to an interference problem at the old site. The new site is on Sharps Ridge, and the new DB-224 antenna is at 200 feet above ground. The open *-up, #-down autopatch is still available as well, covering the Knoxville and surrounding area phone exchanges.

*****

(Well, I did save it for last!)

As you can see, there is an abundance of new 440 Mhz repeaters in East Tennessee- and a "sneak peek" of present applications indicates more to come! If you or your group is considering a new repeater, I URGE you to consider 220 or 440. There is simply no more room on two meters.

Is YOUR repeater news here? It could be! Drop me a note at my home address listed on Page 1 under Tennessee, or I can be reached on packet at WB4GBI @ KT4F.#METN.TN.USA.NOAM. I wish all of you the best in 1993, and see you in the next JOURNAL! 73 de Tim, WB4GBI...

New Tennessee Journal Editor Coming On Board

I am Tom Muncy, KB4QGK. I have taken this job to furnish Tennessee news to the Journal. I have been an Amateur radio operator since 1986, and am a member of the Oak Ridge RC. I am also a member of the Anderson County Repeater Association.

I hope to furnish news to the Repeater Journal, beginning with the May issue, from across the state of Tennessee. To do this, I will need lots of help. All repeaters owners, clubs and hams, please send me your news and announcements. I hope to make a lot of new friends with this and hope to beet everyone of you some day.

My packet system stays parked on the ROSE network at 615428. My home BBS is KB4QGK @ KT4F.#METN.TN.USA.NOAM. My mailing address is 142 Manhattan Ave. Oak Ridge, Tn 37830.

(Editor's Note: Thomas joins Tim Berry is providing news across Tenneassee. Tim, who is Vice-Director will be dealing mainly with repeater news, and coordinations and moves. Tom will get with the clubs, activities and personal stuff that happens hams in Tennessee. Together, these two should really give the Volunteer state top-notch coverage in the Journal.)

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Land Mobile Interests Upset Over NPRM

-by Wayne C. Williams, K4MOB

■ Headlines Scream - WARNING...Proposed FCC Action Could Destroy Your Business!

The two-way and land mobile business is really upset over the FCCs Part 88 NPRM "Spectrum Refarming" rules.

A group called AMRA (American Mobile Radio Assoc., Inc. has made a mass mailing to members of the Commercial and Land Mobile Dealers and Systems users urging them to join the group, and "press the FCC, the Courts, and the U.S. Congress to preserve the options that we now enjoy."

It seems that the FCC has issued the NPRM for Part 88 of the rules to restructure the 150-512 MHz band which would include according to the AMRA tighter frequency stability standards, cutting of power on repeaters and base stations at higher altitudes and limiting coverage.

They said coordinators would be required to "vertical load" all channels to 70 mobile units, saving clerar channels for large new users. Channels would then be shared by all sorts of businesses. For example, taxicabs and tow trucks could be crowded on the same channel with messenger services, private detectives and the power company, while hundreds of adjacent channels lay vacant.

The AMRA said that every radio in use today, in the 150-512 MHz bands under Part 90 will become obsolete by 1996 because of these proposed new rules. They said the bands would quickly deterioate to little more than an expensive version of the 27 MHz Citizens Band if the rules go through and users who need a high degree of reliability and wide-area coverage will be forced to pay high monthly charges to use trunked, air-time billed, SMR systems.

The AMRA said they intend to mount a professional effort in Washington against implementation of the new rules.

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An Amateur Radio Volunteer Examiner Coordinator

VEC NOTICE

With the apparently imminent move of Novice testing into the VEC program, WCARS/VEC believes we must do our part to become more visible. We are particular interested in seeing every Amateur Radio Club in America have at least one accredited VE team within its membership.

If you or your club are interested in forming a VE team, WCARS/VEC is ready to help. For information contact any of the WCARS/VEC persons below:

Win Guin W2GLI
2138 Sonning Dr.
Germantown, Tn. 38138
(901) 754-4552

Ray Adams N4BAQ
5833 Clinton Hwy, Suite 203
Knoxville, Tn. 37912
(615) 688-7771

Norman Harrill, N4NH
7 Skylyn Court
Asheville, NC 28806
(704) 253-1192

John Chism, ND4N
206 Lanewood Drive
Greenville, SC 29606
(803) 297-1617

We're Looking for a Few Good VEs!

Cable TV Industry To Fight TVI

-Condensed from W5YI Report

With the growth in Amateur Radio more exposure to home elctronic equipment is becoming evident.

The Cable TV companies are now pursuing a substantial effort to study causes of TVI and recommend hardware solutions. They are using an "opening" created by the passage of the new cable TV legislation, which requires problems of cable, TV and VCR compatibility to be cleared up. The FCC has the apparent responsibility under the new law to see that this happens.

With lack of funds, the FCC will be reducing its individualized investigations of interference complaints and focus on manufacturers' respojnsibilities to build products that can function properly in today's busy RF environment.

The cable industries research houses are noticing that interference occurs on some TV sets connected to cable, and not on others not connected to cable.

The research centers are seeking proposals from test labs and researchers to contract for the hardware study, which they say the solution to the interference is to better shield and isolate the tuners in TVs and VCRs, as is done in cable TV converter units.

Part I In a Series

Getting Started In Packet Radio

Special For The Repeater Journal
-by Frank Kalish, N4UFF

This article is intended for the beginners in packet radio and deals with strange terminology such as TheNet Nodes and associated BBS's. The local Winston-Salem (NC) LAN (L)ocal (A)rea (N)etwork and BBS (INTBBS) has been used in the examples but the same commands can be used and the same responses can be expected from other Nodes and BBS's.

It is our honest hope that we have been able to put together the words in laymens language so any newcomer to the world of Packet Radio will have a little easier time in getting started in this new facet of Amateur Radio.

Let's Get Started

So you've gotten that new TNC for Christmas, read all the directions, and after many hours, have it connected to your computer and radio. You load your favorite terminal program into the computer and establish a connection with the TNC. All of a sudden all kind of garbage starts scrolling across the screen. Now what???????

Let me take a few minutes to explain the LAN's. In South Carolina, western North Carolina and northern Georgia and, I'm sure, other areas of the country, the locals have established a system of LAN's connected by "backbone nodes".

These "backbone nodes" are (in most cases) not on the 2M frequencies but on 220 or 440. Also, in a lot of cases, are "hidden" NODES. Hidden means they are not displayed when you do a normal (N)odes command. Quite often these "backbone" nodes are also "dedicated nodes". Dedicated to serve as a traffic link between two or more LANS and access is restricted to these LANS.

The LAN NODE(S) are normally located on a central and sufficiently elevated areas to provide necessary coverage. The 07 LAN in the Winston-Salem area is on 145.07 and is a combination of 3 strategically located NODES. INT07 (the Node Alias) located just east of Winston Salem, YAD07 located in Yadkinville and SAL07 located in Salisbury. This LAN serves the Winston-Salem, High Point, Mt Airy, Salisbury, Yadkinville, ETC area. At the INT07 site there is a NODE stack consisting of INT07:145.07, #INT22:(220 VA backbone link) and #INTUH:(440 9600 baud backbone). Anyone connecting to any of the 07 nodes can ask for a connect to any of the NODES showing up in the nodes list and the node takes over from there.

Example of A Packet Session

The following is an example of a packet session. Comments will be in italics to help you identify. For Example: *this is a comment and not a command or response.* On-screen commands are written in bold and underlined. Responses to your commands are in boldfaced type.

C INT07 *Your command to connect to INT07 node*

Connected to INT07:N4UFF-7

response from the node
NODE commands are: (B)ye (C)onnect (CQ) (H)eard (I)nfo (N)odes (R)outes (U)sers)

N *Your command asking for a nodes list*

Note! It is good practice to have your printer on when you ask for a nodes list and keep the printout for reference. As the nodes list change very little over time, it shouldn't be necessary to ask for one very often.

INT07:N4UFF-7} Nodes: *response from the node*

AVL63:W4MOE-2	BRA:WA4KNI-1	GASTON:WB4KDF-7
GRD1:WV4B-1	GRD220:WV4B-4	GRD7:WV4B-7
HKY:WA4MDW-1	HVL:N9BE-6	INTBBS:N4UFF
INTNOS:KD4BBB	KMT07:WB4FUT-7	NCAVL:W4MOE-1
NCCLT:W4BFB-1	NCHKY:KD4OM-1	NCINT:N4UFF-1
SAL07:W4HG-7	SFRE63:W4EHV-1	SFT220:WV4B-2
SFT5:WV4B-5	STF3:WV4B-3	TOC220:N4NFA-2
YAD07:N4VRD-7		

The listing above is of other NODES that INTO7 can connect to.

When you ask for a connect to any of the above nodes, INT07 may or may not connect directly to that node. If, for example, you asked for a connect to AVL63 (The Ashville LAN on 145.63), INT07 would connect to #INTUH (9600 backbone to Hickory), #INTUH would connect to #HKYUH, #HKYUH would connect to #HKY22 (Western NC backbone on the 220 band), #HKY22 would connect to #GAS22, #GAS22 would connect to #AVL22 and #AVL22 would connect to AVL63. The only thing you would see is the message "INT07:N4UFF-7} Connected to AVL63:W4MOE-2". Now you can ask for a connect to any packet station in the AVL63 coverage area that is monitoring or has left their station on the 145.63 frequency.

R *Your command asking for a list of routes for INT07*

INT07:N4UFF-7} Routes:

0	SAL07:W4HG-7	140	2!
>0	INTBBS:N4UFF	82	1!
1	#INT22:W4RXG-2	254	19
>1	#INTUH:N4UFF-8	254	20
>0	YAD07:N4VRD-7	192	1!
>1	NCINT:N4UFF-1	254	21
>0	INTNOS:KD4BBB	81	1

These are the NODES that INT07 can hear direct. The > denotes that this route is in use or has been used in the last 15 minutes.

C YAD07 *Your command asking for a connect to YAD07*

INT07:N4UFF-7} Connected to YAD07:N4VRD-7

Response from YAD07

H *Your command asking for a (H)eard list*

YAD07:N4VRD-7} Heard:

Response from YAD07
N4UFF-15
KD4GES
LARCNC
KD4KOU
KD4GLB-15
N4VRD

These packet stations have been heard in the last 15 minutes or so

I

Your command asking for information about YAD07
The node responds

YAD07:N4VRD-7} Yadkinville, North Carolina 145.07 Mhz Winston-Salem Local Area Network Node Member Carolina Digital Coordinting Council

U

Your command asking for current users of this NODE

YAD07:N4VRD-7} TheNet Plus 2.08B (641) Data about this node
Circuit (INT07:N4UFF-7 N4UFF) *Present user(s)*

C KD4GES

Your command asking for a connect ot KD4GES
After 10 tries with no success YAD07 responds

YAD07:N4VRD-7} Failure with KD4GES

C N4VRD

You then ask for a connect to N4VRD

YAD07:N4VRD-7} Connected to N4VRD
[AEA-9108-H$] >

You are now connected to N4VRD PBBS (Personal BBS)

?

You send the ? command....this works on most BBS's and PBBS's
The PBBS sends you a list of available commands

A(bort) Stop Read or List
B(ye) Log off
H(elp) Display this message
J(log) Display stations heard
K(ill) K n: Kill message number n
KM : Kill messages you have read
L(ist) L : List message titles
LM : List messages to you
R(ead) R n: Read message number n
RM : Read all your unread messages
S(end) S : Send a message to SYSOP
S n: Send a message to station n
V(ersion) Display TNC firmware version
? Same as H(elp) >

B *The (B)ye command will disconnect you from the PBBS and, most of the time, back to your TNC*

Connecting to A BBS

Now we will walk thru a CONNECT TO A BBS session;

We will assume, for this example, you are located inside the GASTON LAN. GASTON is the ALIAS for the GASTON node which is also on 145.07 and included in it's node stack is #GAS22 which is the

Continued on Page 58

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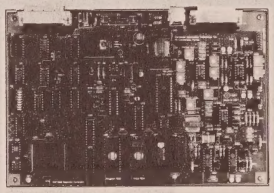

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- ✓ (8) Hardware Inputs
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GEORGIA NEWS

-by Mike Flammia, N4PLM
Send News To: 5303 Driskell Drive, Winston, Ga. 30187

Georgia Amateur Radio Call Sign Tags: Seems that the General Assembly, with it's infinite wisdom, has decided to tax the heck out of the hams in Georgia. During the last session OUR representatives have decided to increase the five year cost of a ham radio call tag from $25 to $125. I really didn't mind paying the initial $25. After all special tags had to be made up, but to then impose an additional $25 per year is outrageous! I for one am just not going to pay it. I suggest that every ham in Georgia not to renew their call sign tag, and to those of you who have not purchased them "don't". If we all stick together on this we can make a difference.

Andy Kramer, KD4LUG and Spence Harrison, KK4TO both of Savannah are spearheading a drive to have the legislation repealed or at least get the fees reduced. I urge that you support them in their efforts. I also urge you to contact your local representative and make your feelings known. The bill that enacted this unfair tax is House Bill 1145.

I for one am going to turn in my tag. I hate to do that because my business requires me to spend a lot of time on the road in the Southeast part of the country. I've had the pleasure of meeting many fine people because they saw my tag as we were traveling along and waved or said hello. Oh well, anyone want to go into the call sign bumper sticker business.

*****

Mike Casper, WA4OAI, spent at least three months in Homestead, FL helping with the effort there. Mike works for Southern Bell and I understand only got home once in three months. Nice job Mike.

*****

BREAK! How many times have you heard that on your local repeater?

I was taught that if you wanted to get into a conversation that was on your local repeater you inserted your call sign and waited to be acknowledged. I thought "break" was only used in emergencies or on 27 MHz. The discussion has been going on locally here for a few months. Drop me a note and let me know how you would interpret the use of the word "break". We'll publish the results here.

*****

Want some fun! Check into the KB4BAW Trivia Net. It's on the 145.11 repeater in Douglasville, Sunday nights at 8PM. I never have many questions for the net, but I sure do enjoy trying to be the first one with the right answer.

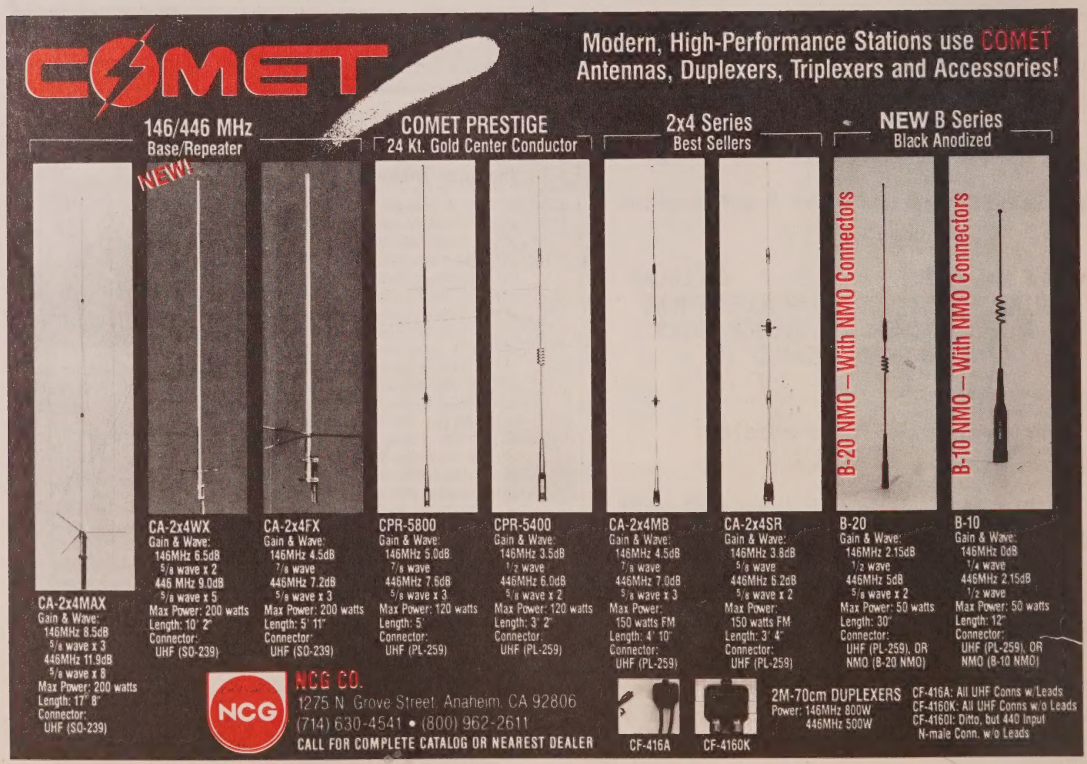
*****

I was in Boston the weekend of December 12 and 13 visiting my parents for a few days. If you remember, that was the weekend of the blizzard of '92. We had anywhere from 8" to 30" of snow in the area with extremely high winds and abnormally high tides. I was stranded in my hotel room all day on Saturday but did have my handi with me. When the power went out in the area several guests gathered in the lobby of the hotel. I had my handi with me and tuned into several local repeaters. It was fun demonstrating my equipment to the people in the lobby. What did surprise me was that I couldn't find an emergency net anywhere. Maybe I just never found the right frequency, but there seemed to be a real lack of emergency nets in the area. Guess I'm just used to the local emergency nets here. It made me feel real proud of the job we do here in Georgia. If you have a regular net that is activated during severe weather or other emergencies drop me a note and we'll publish a list.

*****

Hope everyone had a great holiday season and I look forward to hearing from more of you during 1993. Send news & pictures!

Late Address Change:
Rays Amateur Elec. has moved his store to 1701 N. Main St., High Point, NC 27262. His phone numbers remain the same. Addresses in this issue's ads are incorrect.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CA-2x4FX Gain & Wave: 146MHz 4.5dB 7/8 wave 446MHz 7.2dB 5/8 wave x 3 Max Power: 200 watts Length: 5' 11" Connector: UHF (SO-239)
CPR-5800 Gain & Wave: 146MHz 5.0dB 7/8 wave 446MHz 7.5dB 5/8 wave x 3 Max Power: 120 watts Length: 5' Connector: UHF (PL-259)
CPR-5400 Gain & Wave: 146MHz 3.5dB 1/2 wave 446MHz 6.0dB 5/8 wave x 2 Max Power: 120 watts Length: 3' 2" Connector: UHF (PL-259)
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Getting Started In Packet

Continued from Page 54

220 backbone node. This LAN also includes KMT07:WB4FUT-7 serving the Kings Mt. area.

Again, comments will be enclosed in italics.

C GASTON *Request connect to Gaston node*

Connected to GASTON:WB4KDF-7 *Reply form Gaston*

C GASBBS *Request connect to GASBBS* Note! GASBBS has appeared on past nodes list at the GASTON node.

GASTON:WB4KDF-7} Connected to GASBBS:WB4KDF-4 *Reply from GASTON*

[FBB-5.14-ABFHM$] *BBS connect message*

2 connected stations *Number of connected stations including yourself*
WB4KDF BBS> BBS prompt

T *Request to talk to GASBBS Sysop (keyboard)*

George is not available, you can leave a message for him in the mailbox. *[The above line is the reply from the BBS] WB4KDF BBS> [BBS prompt*

The next few lines show the proper way to send a message.

SP WB4KDF *Your command to (S)end (P)rivate message to WB4KDF Message addressed to WB4KDF mailbox.*

Title: *The BBS asks for a Title for your message (keep it short)*

HOWDY *You enter a title*

Message, (end with /EX or Ctrl-Z): *The BBS responds*

The next few lines is the message you type in with a carriage return at the end of each line.

Hi George, I connected in to your BBS to wish you happy holidays but you were not available to talk. So....HAPPY HOLIDAYS 73 Pete CTRL/Z

Mid: 22456_WB4KDF Size: 148 *BBS replys showing the Message I. D. and number of bytes in message* **WB4KDF BBS>** *BBS prompt*

b *You send the (B)ye command to disconnect from the BBS*

BBS COMMANDS

The below is a list of basic bbs commands:

H: Read this help-text.

KM: KILL all messages to you, that you have read.

LM: LIST all messages to you.

O: Choose "options" (language, paging).

RM: Read all messages to you.

RN: Read all NEW messages to you.

S: SEND a message.

(**SP** to Send Private, **SB** to Send Bulletin and **ST** to Send nTs)

T: "Talk" to sysop.

B: Bye (disconnect).

The following is a typical list of commands you can expect when you do the **?** HELP command

A: Abort - Abort listing.

B: Bye - Log off the BBS.

C: Conference - Access to conference

D: DOS - Access to FBBDOS, or to download a file.

F: FBB - Access to server mode.

H: Help - Help. I : Info - Information about the system.

J: Jheard - List of the last connected stations.

- Type JK to see the last connected stations.
- Type JA to see callsigns that have connected to TNC-A.
- Type J1 to see callsigns that have been MONITORED on TNC-A.
- Type JB to see callsigns that have connected to TNC-B.
- Type J2 to see callsigns that have been MONITORED on TNC-B. and so on...

K: Kill - Kill messages TO or FROM you.

- Type K[space][message#] to delete one special message.
- Type KM to delete all messages to you, that you have read [Kill Mine]. This command will NOT kill messages that you have not read!

PS: You cannot delete messages that are not TO you or FROM you, only SYSOP can do that..

L: List - List messages.

L: lists all new messages since you last issued a L-command.

LB: lists only bulletins.

LC: for very special listings. See further down.

LM: lists all messages TO YOU [List Mine]. LN lists all UNREAD messages to you [List New].

LL 10: lists the last 10 messages in the mailbox [List Last].

LS: [Text] lists messages with [text] in the subject.

L<: [callsign] lists messages FROM [callsign].

L>: [callsign] lists messages TO [callsign].

L@: lists local bulletins with no @BBS-field.

L@ [callsign]: lists messages @[callsign].

L [message#]: lists ONLY messages with higher number than [messages#].

L [message#]-[message#]: lists all messages between these numbers.

LU: lists all UNREAD messages (status N) to and from you.

LR: lists messages in reverse order, starting with the oldest one.

LR: can replace L in most contexts (ex: LR 1-100)

Examples:

- To list messages over #325, type L 325-
- To list messages from #300 to #350, type L 300-350

PS: Check number of active messages before doing a list-command, to avoid listing every messages in the system. This is easy to check with the V-command.

Special command LC: With this command you can have very special listings. If you once type LC DX, then all list-command (except LM and LN) will only list messages with a TO-field of DX. If you type LC *DX*, listings will contain all to-fields that have DX in it, for example VHFDX, DXHF etc. To go back to "normal", send LC *

LC * or LC: gives a list of available LC-fields.

N : Name command is used to enter (or later change) your name in the BBS. You can use max 12 characters. "Phoney" names will be deleted, use your own first-name.

N[space][first-name]

NZ: Zip - State your zip-code.

NH: homeBBS - Type your home-BBS.

O: Option - Select options (paging, language, list/read personal etc).

O alone shows you what language you are using, paging and base-number.

- Type OP to toggle paging on messages.
- Type OP [number-of-lines] to select paging with a specific number of lines per page.
- Type OL alone to get a list of available languages.
- Type OL[space][language-number] to choose a language.
- Type ON alone to see your base-number.
- Type ON [number] to choose a new base-number. The number you type, will be multiplied by 1000, so if you type ON 54, your base-number will be 54000. After that, you can type R 25 to read message number 54025. It is also allowed to type ON 54000.
- Type **OM** to choose if you want to receive the list of new messages at every connect.

PS: Servers - Show which servers are available in this BBS.

PG: Program - Run (show) certain DOS-programs.

R: Read - Read messages.

- Type R[space][message#] to read one message. You can chain several message#, seperated by a space.
- Type RM to read ALL messages adressed to you [Read Mine].
- Type RN to read all NEW messages to you [Read New].
- Type RU to read all UNREAD messages (status N) to or from you.
- Type R< to read messages from a certain callsign.
- Type R> to read messages to a certain callsign.

S: Send - Send messages.

- Type S[type][space][callsign] to send a message. Type can be P for Personal or B for Bulletin.
- Type S[type][space][callsign] @ [callsign] to send a message to a station at another BBS.
- Type SB ALL to send a bulletin to ALL.
- Type SR[space][messages#] to reply to a special message. (Send Reply).
- Type SC[space][messages#]
- [space][callsign] to send a copy of a message to another callsign. (Send Copy). You can write a message before sending the CTRL-Z, then the copy will be appended to your text. If you don't want to do this, just send CTRL-Z instead of any text.

T: Talk - Talk to SysOp.

T-command calls the BBS System Operator (SysOp).If SysOp IS available to chat, you'll get a response within ONE MINUTE. Otherwise, the BBS will advise you that SysOp did not answer. You will be returned to the command prompt and can continue normally.

U: Upload - Upload a file to the BBS.

V: The V-command shows you the specific version of this PBBS, the date of the software release and the copyright notice. This also shows the number of active messages and the next message number.

- Type V to see this PBBS's software version. The V-command also lets you READ MESSAGES with a verbose listing, including the message routing. Use like R-commands.

Continued on Page 59

ARRL Repeater Directory Editor Visits SERA Board

■ Jay Mabey, NU0X Visited The Annual Winter SERA January Board Meeting. He Writes:

THANKS SERA!

I would like to extend my sincere thanks the SERA organization for the hospitality extended to me when I attended the Winter Board Meeting in Knoxville. I was very impressed with the way an organization encompassing so many personalities could interface so well on so many topics of interest to the both SERA and the coordination community in general.

As ARRL Repeater Directory Editor, I can appreciate the vast amount of effort provided by your Directors, Coordinators and David Ward as Data Base Manager during the process of compiling repeater data for the SERA Journal and the annual submission to ARRL for publication in the RD.

Many of the topics discussed at the meeting were of interest to the entire coordination community. Spectrum management in these times is becoming more and more important to coordinators everywhere. With so many repeaters springing up and limited spectrum in which to coordinate them, the job (and rest assured it IS a job...) of Frequency Coordinator is increasing in complexity by leaps and bounds. Many times a proposed repeater can potentially have an effect on several neighboring states as well as the state in which it is to be coordinated -- mandating that your Frequency Coordinator must also be an "ambassador." Organizations like SERA exist to streamline the process of coordination and it's very comforting to know that things are progressing in such good hands.

Once again it was my sincere pleasure to finally meet many of the guys (and gals...) that I have "spoken to" on the telephone or, as Nita may recall, on the National Repeater Data Base BBS! I hope to see many of you again at Dayton in April. Despite the fact that Ray attempted to leave Wally and I "luggage-less" at the airport the return flight was uneventful and it was 19 bone-chilling degrees in Hartford! Thanks and 73 to all.

– Jay Mabey, NU0X
Editor, ARRL Repeater Directory

- Type V[space][message#] to READ a specific message. You may have several message numbers per line.
- Type VM to READ ALL messages addressed to YOU [Read Mine].
- Type VN to READ ALL NEW messages addressed to YOU [Read New].
- To READ msgs #313 and #325 type "V 313 325". Don't forget SPACE.

V: Verbose - Verbose read of messages (like R, but with forwarding headers).
W: What - Which files are available.
X: Expert - Change between Normal and Expert. The X-command toggles your status between "normal" and "eXpert" user. "Normal" mode gives you complete prompts and standard messages. "eXpert" mode gives you a very short command line and nothing else.
- Type X to toggle your status between "normal" and "eXpert".

Y: Yapp - Transfer binary files with the Yapp transfer protocol.
Z: Delete - Delete a file.
>: Send text - To send a text to another station connected to the BBS.
> [callsign]: [text] to send a text to another station that also is connected to the BBS. Get an overview of connected stations with the !- command.
=: Connect - To connect another station connected to the BBS.
= [callsign]: - To connect to another station that also is connected to the BBS. Get an overview of connected stations with the !-command.
!: Info - Short version of the I-command.
%: Use this command to see the status of all channels in the BBS right now.
: Wildcard - Many possibilities, like @,?,#,=, Following "wildcards" are allowed:
@ replace one letter
? replace one alfanumeric character (A-Z, a-z and 0-9)
replace one digit
= replace any character, except space
* replace any string of characters

For detailed help on each command, type ? [command].

A Few Final Words

A few words on sending bulletins: If you want to send a bulletin for everyone in North Carolina to have the opportunity to read....then.....SB ALL@NCBBS....is the correct command. This will send the bulletin to all BBS's in North Carolina and since it is a bulletin, anyone can read it. Even though you can send bulletins to ALL@USA and ALL@WW (W)orld (W)ide, it is recommended you first send to ALL@NCBBS or just to ALL if you wish it to stay on your local BBS. If you don't get the desired results, then try the USA or WW routing. Keep in mind that when you send a message as SP, it can only be read by the BBS sysops, you, and the call sign it is addressed to. If you send a message as SB, everyone that connects to any BBS, the message resides on, can read it.

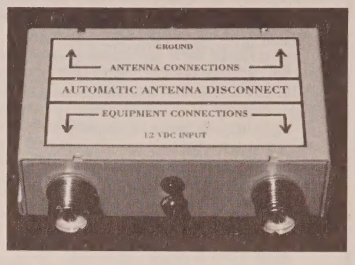
How to contact us

Please address any comments on this article and suggestions for future articles to:

Packet: N4UFF@N4UFF.NC.USA
Phone: (919)595-3975 (1800-2200 weekdays - anytime on weekends)
Mail: Frank Kalish 1733 Quawatha Dr. Kernersville NC 27284

New Products

LPS Enterprises has introduced a new line of Automatic Disconnect products. These products are designed to help protect electronic equipment from damage due to static discharges and voltage surges.



Auutomatic Antenna Disconnect

The Automatic Antenna Disconnect is a device designed to automatically disconnect an antenna when the transmitter or receiver is powered down, either by the operator, or as a result of a power failure. The device automatically re-connects the antenna when power to the equipment is restored. The unit is available with all types of RF connectors, and custom configurations are also offered. For the electronics hobbyist, a kit form is also available. Typical applications for the Auto Antenna Disconnect include: Amateur radio, citizens band radio, business communications and shortwave listners.

Automatic Modem Disconnect

The Automatic Modem Disconnect is a device designed to automatically disconnect a computer modem from the telephone line when the computer is powered down, either by the operator, or as a result of a power failure. The device automatically re-connects the modem when power is restored to the computer. For further information on these products, please contact Pete Nicholls, N4BHB, at LPS Enterprises, 308 Sterling Drive, Warner Robins, Ga. 31088. Telephone (912) 929-9416.

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443.625 Oneida Peak Bluefield, Va. WZ8E	146.955 Oneida Peak Bluefield, Va. WZ8E	444.400 Keeney Mt. Alderson, Wv. WF1G
145.170 Bolt Mtn. Beckley, Wv. WF1G	147.030 Herndon Mt. Mullens, Wv. KC8IT	444.625 East River Mt. Bluefield, Wv. WZ8E
145.310 Mann Mtn. Beckley, Wv. WF1G	147.270 Poor Mt. Roanoke, Va. KB4QWO	444.800 Lick Knob Beckley, Wv. WF1G
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- HIGH STAB 0.2PPM TCXO OPTION
- MANUAL HOLD FUNCTION
- BLANK DISPLAY FUNCTION
- 9-12V *AUTO-POLARITY* PWR JACK
- ***StarCab™*** ALUMINUM CABINET
- 1 YEAR LIMITED WARRANTY

ATH™ refers to our exclusive new *AUTOMATIC TRIGGER & HOLD* circuit with *AUTOMATIC CLEAN DROPOUT*. With ***ATH™*** you can say good-bye to almost all of that annoying random counting and the false readings we have become accustomed to when using portable counters. The model ***ATH-15*** is an *ULTRA HIGH SENSITIVITY*, 1 MHz to 1500 MHz frequency counter with an INTEGRATED BAR GRAPH circuit which ***instantly*** displays the signal strength of an input signal from < 1 MHz to over 4 GHz. When the ***ATH™*** feature is used, the counter displays the last readable signal received. It automatically triggers on a readable signal and automatically switches to the "hold" status when the signal dissapears. Because of *AUTO TRIGGERING*, the first reading is correct. If the signal stops in the middle of a sample or gate time, the last complete accurate reading will be displayed and the unit switched back to "HOLD" status, hence the *AUTOMATIC CLEAN DROPOUT* prevents the display of erroneous data, all this is done automatically, with hands free operation - and it works great !!!

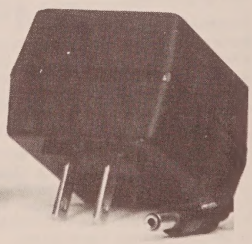
We are further responding to user requests by offering a *ONE-SHOT* ***ATH™*** option. This consists of a *ONE-SHOT* select switch, a push button *RESET* switch and two LED indicators all located on the top of the counter (not shown). When this function is used, the first readable signal that triggers the counter will be held on the display until manually reset. One push of the reset button will reset the display to zeros and enable the one-shot circuit again. The display can be blanked or turned off pending the auto triggering from an input signal, which also saves power under battery operation.

RESPONSE TIME, defined as the time from the beginning of the input signal to a stable, accurate, readable display, has been dramatically speeded up. The RESPONSE TIME is actually 800% faster than previous models and if you consider not having to manually throw the hold switch, at just the right time, the ***ATH-15*** is functionally the fastest counter you can buy !!

MADE IN USA

SAY *GOOD-BYE* TO RANDOM COUNTING & FALSE READINGS

ATH-15



SIZE: 4"H x 3.5"W x 1"D

#ATH-15	FREQUENCY COUNTER WITH NI-CADs & 110VAC ADP	$235.
FACTORY INSTALLED OPTIONS:		
#O/S-ATH-15	ONE-SHOT ATH™	40.
#HSTB-15	HIGH STAB TCXO 0.2ppm	100.
ACCESSORIES:		
#CC-90	BLACK VINYL ZIPPER CASE	12.
#TA-90	TELESCOPING BNC ANTENNA	12.
#P-110	PROBE, 200 MHZ, 1X-10X	39.
#M207IC	CABLE FOR MFJ-207/208	10.

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398 NE 38th St., Ft. Lauderdale, FL 33334

The SERA Repeater Journal
VE/VEC EXAMINATION SCHEDULE

The VEC/VE Exam schedule is published Free as a public service of SERA. Schedules are supplied by individual VEC/VE teams. For quarterly changes, or additions, write the Repeater Journal Editor. SERA cannot assume any responsiblity for errorious or outdated listings other than typographical errors.

Tennessee

Blount County, Maryville WCARS-VEC

Walk-in exams held Second Monday on each even month at 7:00 P.M. at St. Andrews Church Hall, W. Broadway, Maryville. Sked: Feb. 8, Apr. 12, Jun. 14, Aug. 9, Oct. 11 and Dec. 13. Contact: Carrol Peabody, W4PCA, 2054 Independence Dr., Maryville, Tn. 37804 (615) 982-5839. Talk-in: 146.85.

Carter County WCARS-VEC

Exams given on the fourth Friday evening of each odd numbered month at 7:00 p.m. at Moody Aviation, Carter Cty. Airport Elizabethton. Pre-registration is required by day before tests. NO walk-ins. Schedule: Mar. 26, May 21, Jul. 23, Sep. 24 and Nov. 19. Contact Joe Hopkins, K4BKI, 414 E. "H" St., Elizabethton, Tn. 37643 (615) 543-4022 or Jon Christiansen, AB4NN, Echo Dr., Elizabethton, Tn. 37645 (615) 543-7155.

Chattanooga WCARS-VEC

Walk-in exams held on the first Monday of off numbered months at Walker County (Ga.) Civic Center, Hwy. 27, Rock Springs, Ga. at 7:00 p.m. Sked: Mar. 1, May 3, Jul. 5, Sep. 6 and Nov. 1. For more information, contact: Alan Painter, WA4QCH, 234 Wallaceville Rd., Rossville, Ga. 30741, or Dale Harwood, N4VFF, Rt. 4, Box 297-B, Hwy. 41N, Ringgold, Ga. 30732. (404) 937.5680.

Fentress County WCARS-VEC

Walk-in exams third Thurday night of first month of quarter at 7:00 p.m. at First Baptist Church. Sked: Apr. 15, Jul. 15, and Oct. 21. For information contact: Mike Ledbetter, AB4BX, Rt. 4, Box 759, Jamestown, Tn. 38556, (615) 879-8626 or Steve Qualls, KJ4HT, 17 Sleepy Hollow, Jamestown Tn. 38556 (615) 879-7517. Talk-in: 147.09.

Gallatin WCARS-VEC

Exams held during hamfest. Oct. 2 at 11:00 am. Pre-registration only. Contact: Ronnie L. Gilley, KA4LUG 512 Hillside Ln. Gallatin, Tn. 37066 (615) 452-0883 or Jerry Goodchild, K4DZR, 233 Sterling Rd. Hendersonville, Tn 37075. (615) 824-7699.

Greeneville WCARS-VEC

Walk-in exams on 4th Saturday of each odd-numbered month at Roby Adult Center on College St. Sked: Mar. 27, May 22, Sep. 25 and Nov. 27. Contact: Jack Creed, K4EPC, 826 Rosebud Dr., Greeneville, Tn. 37743. (615) 638-7056. Talk-in: 147.39 & 224.94.

Henry County WCARS-VEC

Walk-in exams held every 6 weeks at 9:00 a.m. at Henry County High School, Paris. Sked: Mar. 20, May 1, Jun. 12, Jul. 24, Sep. 4, Oct. 16, and Nov. 27. Contact Mackie Gallimore AA4YF, P.O. Box 68, Puryear, Tn 38251 (901) 247-5489 or Les Merrell, KQ4F, 1214 Sherwood St., Paris, Tn. 38242 (901) 642-5966. Talk-in: 147.165.

Jasper WCARS-VEC

Pre-Registration requested, some walk-in exams limited to test materials on hand, held each second Sunday afternoon at Jasper Public Library at 1:00 p.m. Sked: Feb. 14, Mar. 14, Apr. 11, May 9, Jun. 13, Jul. 11, Aug. 8, Sep. 12, Oct. 10, Nov. 14 and Dec. 12. Contact Charles Wooten, KD4XX, 103 W. 7th St., Jasper, Tn. 37347 (615) 942-5116 or Wallace S. Brown, KD4XV, 409 Magnolia Ave., Jasper, Tn. 37347 (615) 942-2836. Talk-in: 145.19.

Johnson City WCARS-VEC

Exams are conducted 3rd Saturday of each even month at 10 a.m. at ETSU, Room 223. Participants must be registered at least 1/2 hour before exam time. Sked: Feb. 20, Apr. 17, Jun. 19, Aug. 21, and Dec. 18. Contact Charles Hensley, AC4QF, Rt. 2, Box 19A, Unicoi, Tn 37692. (615) 743-5144, or at work (615) 926-1171, ext. 7807. or C.V. Jayne, Jr. W4NHT, 2408 Hawthorne Dr., Johnson City, Tn. 37601. (615) 282-5822. Talk-in: 146.79.

Knoxville WCARS-VEC

Pre-Registrations accepted in exam room until 9:30 a.m. Code tests begin at 10:00 a.m. and written elements at 11:00 a.m. Third Saturday of each month normally. Upgrades only.

Novice testing on request from N4BAQ, ND4F, WA4GZE, N4IJL, W4MHA, WA4TKN and others. Pellissippi State Tech. Room B-129. Pre-registration required. Sked: Mar. 20, Apr. 10 (Oak Ridge Hamfest), May 15, Jun 5, Knoxville Hamfest, Jun. 19, Jul. 17, Aug. 21*, Sep. 18*, Oct. 16*, Nov. 20* and Dec. 18*. (*=Tentative dates. Contact: Ray Adams, N4BAQ, 4325 Felty Dr., Knoxville, Tn. 37918. (615) 688-7771. Alt. Rich Slover, ND4F, P.O. Box 30754 Knoxville, Tn. 37930, (615) 539-4821. Talk-in: 147.30 & 224.50

Loudon County, Loudon WCARS-VEC

Walk-in exams held on Fourth Saturday of each even month, at Third National Bank on U.S. 321 E. (321 is Exit 81 on I-75, then East to Bank) Sked: Contact: Bob Gray, KE4SK 1114 Welch Ave., Loudon, Tn 37774 (615) 458-6115. Talk-in: 145.17.

McMinn County WCARS-VEC

Walk-in Exams on 2nd Monday evening at 8:00 p.m. of each odd numbered Month, at Athens Municipal Building Council Chambers. Sked: Mar. 8, May 10, Jul. 12, Sep. 13 and Nov. 8. Contact: Evan Ray, WA4PNI. 529 N. Wash. Ave., Etowah, Tn. 37331 (615) 263-9300. Talk-in: 145.31

Memphis WCARS-VEC

Walk-in exams held 3rd and 4th saturday of each month at 9:00 a.m. at Central Church on Winchester Road. Sked: Feb. 13 & 20, Mar. 20 & 27, Apr. 10 & 17, May 15 & 22, Jun. 12 & 19, Jul. 17 & 24, Aug. 21 & 28, Sep. 18 & 25, Oct. 16 & 23, Nov. 20 & 27, Dec. 18, 1993. Contact: Win Guinn, W2GLJ, 2138 Sonning Dr., Germantown, Tn. 38138 (901) 754-4552 or Nita Wofford, N4DON, 2966 Cordell St., Memphis, Tn. 38118 (901) 363-4971, or Stan & Mary Moore, AC4CQ & AC4GF, 3993 Wildwood Cove, Memphis, Tn. 38115 (901) 795-5923.

Morristown WCARS-VEC

Walk-in exams 1st Thursday of each odd-numbered month, at 7:30 p.m. at the Red Cross Building. Sked: Mar. 4, May 6, JUl. 1, Sep. 2, Nov. 4. Contact Roy Zeigler, KF4CB 2261 Warren Dr., Morristown, Tn. 37814 (615) 586-3491, or D.C. Gluck, WD4FOX, P.O. Box 335, Talbott, Tn. 37877 (615) 586-2041. Talk-in: 147.225

Roane County WCARS-VEC

Walk-in exams are held on the second Saturday of each even month at Pond Grove School, Rockwood. Sked: Feb. 13, Apr. 10, Jun. 12, Aug. 14, Oct. 9, Dec. 11. Contact: Richard Spille, AA4KS, 306 S. Kingston Ave., Rockwood, Tn 37854 (615) 354-4281, or Bill Smelcer, KA4AAD, P.O. Box 53, Harriman, Tn. 37748 (615) 354-1010. Talk-in: 147.015.

West Virginia

Beckley W5YI-VEC

The Smoke Signal Ridge VE Team, sponsored by the ARA, Northern Dividion will conduct Novice through Extra Class test sessions in Rooms C108 and C109 at the Mine Safety & Health Admin. Academy, located near Beckley, adjacent to the Raleigh County Airport just off Exit 125 on I-64. Walk-in exams begin promptly at 6:00 p.m. on Dec. 12.

Bluefield W5YI-VEC

Exams (Novice thru Extra) second Saturday each Quarter during 1992, Feb., May., Aug., and Nov. 9:00 a.m. Bluefield State College. Walk-ins are preferred. Contact: Don Williams, WA4K, (Bluefield VE Team) (703) 326-2411 or (703) 326-3338.

Charleston, W5YI-VEC

The Kanawha Valley group gives Novice thru Extra class exams at 9:00 a.m. 3rd Saturday of each month, at Holy Trinity Catholic Church in Nitro. Walk-ins are accepted. Talk-in on 40-00 St. Albans repeater.

HUNTINGTON, TARA W5YI-VEC

The Tri-State ARA VE Team will conduct Walk-In Exams at the Our Lady of Fatima Church, 545 Norway Ave. Huntington. Check-in by 9:15 a.m., exams at 10 a.m. Bring photo ID, current license and copy. Sked: For exam information Contact: Jim Baker, K8KVX, (304) 736-6542.

NITRO, W5YI-VEC

Walk-in exams (register at site) are held at the Holy Trinity Catholic Church. Registration begins at 9:00 a.m.. Talk-in on 40-00. Sked: For exam date information contact: Jimmie Hewlett, WD8MKS, 2207 Fairlawn Ave., Dunbar, WV 25064. (304) 768-1142.

Virginia

Bedford ARRL-VEC

Walk-in exams for all classes are held every 2nd Sunday of the month at 2:00 p.m. at the Liberty Lake Park Administration Building. For further info, contact Bob Treacy, W2QZY (703) 297-5351

Danville W5YI-VEC

Walk-in Exams for all license classes are held the last Tuesday of each month January through November, at Danville Community College, Hill Building. Registration starts

VE Exam Schedule Continued Next Page

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VE/VEC EXAMINATIONS

CONTINUED FROM PREVIOUS PAGE

at 6:30 p.m. Contact Richard Marshall, WB4CCT, (804) 793-0772 for further information.

Roanoke WCARS-VEC

Upgrades only. Novice testing on request from AF2D or W4OLD. Pre-registration only for exam May 15 at Hamfest. Walk-in on Sep. 25, Dec. 4, at Hollins College. For information contact Fred L. Horton, KZ4Y, 4024 Oakland Blvd., Roanoke, Va. 24012. (703) 366-6266. or Ben Giavaden, N4BG, Rt. 7, Roanoke, Va. 24022, (704) 344-7000. Talk-in on 146.985.

Norfolk, Va. Beach, Hampton Roads, Portsmouth, Chesapeake, Wmsburg.

All exams: Walk-ins are ok, but contact person would like to know in advance you are coming. Bring original license and copy and any license upgrade certificates. See individual exam announcements for appropriate contact person.
FEES: For ARRL EXAMS - make check for $5.60 payable to ARRL/VEC. For W5YI Exams - Fee is $5.60. For Hampton Roads Radio Assn. exams, make check out to HRRA/VEC.

Southeastern Virginia Schedule

Chesapeake DX Assn (ARRL/VEC) Contact: Bill Verebely, KC4YX at 424-4764. Sked: Jul. 10.
HAMPTON ROADS RADIO ASSN. (W5YI/VEC) contact Bill Runyon, N4BDH at 487-8611. Sked: Feb. 6, May 1, Aug. 21, & Nov. 20.
Portsmouth ARC. (ARRL/VEC). Contact Art Thiemens, AA4AT at 484-2857. Sked: Nov. 6.
SOUTH PENINSULA ARC (ARRL/VEC) Contact Ed Brummer, W4RTZ at 898-8031. Sked: Mar. 6.
VIRGINIA BEACH ARC (ARRL/VEC) contact Ed Robinson, WD4GOY, 468-0866. Sked: Jun. 5, & Dec. 4.
WILLIAMSBURG ARC (ARRL/VEC) Contact Andrew Swanson, WJ4X at 253-2811. All exams walk-ins only. Sked: Apr. 3, & Sep. 11.

Virginia Beach Hamfest Oct. 3

The South Peninsula ARC will conduct ARRL/VEC WALK-IN exams Sunday only at the Virginia Beach ARRL Virginia State Convention-Hamfest-Computer Show at the Pavilion. For more information call Ed Brummer W4RTZ at 898-8031.

North Carolina

Asheboro VE Team

Exams held each quarter at Belfour Baptist Church, 1642 N. Fayetteville St. and at other times when there are sufficient examinees to warrant an exam session. For exact dates or further information, contact: Dwight Ayers, N4ZRT, P.O. Box 246, Cedar Falls, N.C. 27230. (919) 629-5516.

Asheville WCARS-VEC

Walk-in exams are held on the last Saturday of April, July and October at 9:00 a.m. at the Health and Social Services Bldg. 25. Sked: Apr., 24, Jul. 24 & 25 (Hamfest) and Oct. 23. Contact Norman G. Harrill N4NH, 7 Skylyn Ct., Asheville, NC (704) 253-1192. Talk-In: 146.91 & 224.60.

Asheville WCARS-VEC

Walk-in exams held at 2:00 p.m. Sunday at the Elm Bldg., Rm. 134 of AB Tech. Sked: Feb. 21, May 16, & Nov. 21. Contact Mary Dull AA2AB, 129 S. Mills River Rd., Horseshoe, NC 28742 (704) 891-5481, or Don Lovelace, W4TMT, P.O. Box 859, Spruce Pine, NC 28777 (704) 765-5311. Talkin on 146.91 and 224.60.

Charlotte ARRL-VEC

Examinations are scheduled quarterly in November, February, May and August. For information on dates and locations, contact: Rob Rochelle, WA4DAZ (704) 845-3099 or Mary Hunt, KA4EXP (704) 845-9429

Charlotte/Gastonia Charlotte-VEC

Monthly walk-in exams are held at 9:00 a.m. Saturdays at the Gaston County library, 1555 East Garrison Blvd., Gastonia. Bring orig. and photocopy of present license and certificate(s) plus ID and $5.00 cash fee. Call for Exact dates. Charlotte VEC, 227 Bennett Lane, Charlotte, NC 28213 (704) 596-2168.

Charlotte Hamfest (March 14)

The Charlotte VEC will conduct exams Sunday only at 9:00 a.m. at the Charlotte Hamfest. PRE-REGISTRATION ONLY, must be received before March 6. Any received after cutoff date will be returned without action. Send completed (Sec. I only) 610, photocopy of any certificates(s) and $5.00 fee to: Charlotte VEC, 227 Bennett Lane, Charlotte NC 28213. You must bring original license, original certificate(s), and photo I.D. to exam for identification.

Durham

Exams are given on the 2nd Saturday of odd months. Please pre-register by mail with SASE to KY4Y, 120 Radcliff Circle, Durham, NC 27713.

Greensboro W5YI-VEC

Walk-in exams for all license classes are held the 3rd Thursday of each month, at the Trotter Center on Vandalia Rd., January thru November. Registration starts at 6:30 p.m. For more information, contact WB4CCT, WB4WOR, N4GGD, N4BYU or W3GRG on the 146.76 repeater, or call Real Talk (919) 299-2525, Prompt 0076, on a touch tone phone to get the latest exam updates.

Hendersonville W5YI-VEC

The Blue Ridge Chapter of QCWA VE team conducts Walk-in exams at the Blue Ridge Community College in Hendersonville at 2:00 p.m. on the following dates: Mar. 7, Jun. 6, Sep./ 12 and Dec. 5. While walk-ins are welcome, the courtesy of a reservation is requested. Contact W2YTO at (704) 891-4359.

High Point TEARC-VEC

Exams are scheduled on an occasional basis in High Point. Call Jim Williamson, NQ4T at (919) 841-7576 for more details. Special sessions are also available for groups of 5 or more applicants, call to set up a session.

Kernersville TEARC-VEC

Exams are scheduled each 1st Saturday of the Month at 9:00 a.m. at the Kernersville Public Library. Contact Jim Williamson, NQ4T at (919) 841-7576 for details.

Leicester WCARS-VEC

Walk-in exams held second Saturdays each quarter. at 9:00 a.m. at the Leicester VFD on Hwy. 63, 9.3 Mi N of Hwy 19 & 23 (Patton Ave-Asheville). Sked: Mar. 13, Jun. 12, Sep. 11, Dec. 11. Contact: Larry E. York, WB4PLA, Rt. 4, Box 420, Leicester, NC 28748. (704) 683-1400. Talk-in on 146.835 & 224.66.

Concludes on Page 66

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- **RARSfest Social**

  A welcoming reception will be held Saturday night from 7-9 PM in the large meeting room inside the hamfest building. Enjoy refreshments and door prizes.

- **Special Interest Meetings**

  QCWA, MARS, NTS, ARES, ARRL Forum and other meetings. Times will be announced at the Hamfest.

- **Amateur Radio Exams**

  Exams by preregistration only. No walk-ins accepted. Deadline for exam preregistration: March 27th, 1993. Send completed form 610, copy of current license, code/theory certificates (CSCEs). If applicable, indicate the highest class of license you desire to be tested for and include a check or money order for $5.60 made out to "RARS-VE" to: *Vince Yakamavich, AA4MY, 220 Carriage Trail, Raleigh, NC 27614 (919) 847-8512 (Exam information only, please).*

- **Homebrew Contest**

  Show your best handywork in home-built projects such as antennas, computers, test gear or radio equipment. Prize awarded.

- **Hamfest Prizes**

  Pre-registration, hourly and major prizes drawn during the day. You need not be present to win pre-reg. or major prizes.

- **Indoor Fleamarket**

  Regular fleamarket and vendor area space: one 8' table with 2 chairs is $10.00. Five or more tables are $9.00 each. 120-Volt AC power is $10.00 per connection (bring your own extension cords). Questions? Call Rollin Ransom, NF4P (919) 269-4406 for further information.

- **Dealer Space**

  Booths and tables are available in designated commercial dealer areas. For further information, contact Rollin Ransom, NF4P 1421 Parks Village Road Zebulon, NC 27597 (919) 269-4406.

Pre-registration Form (Pre-register by March 27, 1993) *Include S.A.S.E. Make checks payable to "RARSfest".*

Name:_____ Call:_____

Address:_____

City:_____State:____ Zip:_____

☐ Yes, I will attend the Saturday night social.

☐ Yes, I plan to use Saturday overnight RV parking.

____Pre-registration tickets @ $5.00 ea $_____

____Tables 1-4 with 2 chairs @ $10.00 ea. $_____

____Tables 5 + @ $9.00 ea $_____

____120-Volt AC power @ $10.00/connection $_____

Total enclosed $_____

Mail to: **Rollin Ransom, NF4P 1421 Parks Village Road Zebulon, NC 27597**

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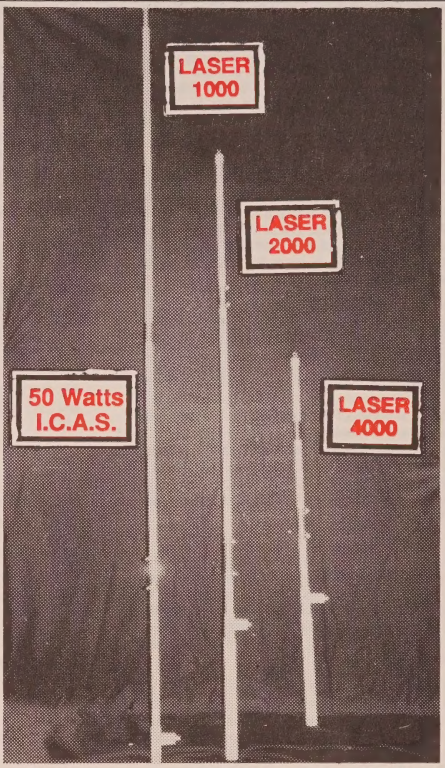
- You have never had an antenna that can be tuned as fast as the laser vertical base antennas from SKY POWER ANTENNA MFG. Laser antenna can be tuned to resonant frequency in less than 10 second and that is all that you have to do to it.
- Laser antennas are electrically approximately 1 wave length and longer deepening on the model. The antennas are vertical polarized and no external ground plane is needed.
- All antennas have excellent gain, and, when at the resonant frequency that you are going to operate at, will produce additional gain on transmit and receive.
- All antennas are very broad banded and will operate out of resonance with approximately 3 watts reflected power on the ends of the band with 35 watts forward power and, with resonant frequency balanced between the ends of the band, the resonant frequency should be 0 watts reflected power. 144-148 mhz.
- The antenna can be mounted from a mast pole, on the side of a tower, or pulled up by a rope and hung from a tree by the hook that is in the top of the antenna. You can hang it in the attic of your home. If you are a salesman and would like to take the antenna with you, you can stand it in a corner, take it on a field day, camping, or just about anywhere that you can think of.
- All antennas are housed in P.V.C. to protect them from the outside elements for many years of service. The P.V.C. is also used to keep the cost down.
- If you encounter a problem, just contact us so it can be taken care of and you won't have to miss your enjoyment of ham radio.

P.S. Just try it, I'm sure you will be very HAPPY you did. See you at many hamfests.

THANKS 73s
RAY FIELDS
WD4ALZ



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LASER	2000S	1.9*	$49.95
LASER	4000	1.4*	$39.95
430-450 MHZ.			
LASER	4000S	1.9*	$49.95

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VE/VEC EXAMINATION SCHEDULE

from Page 63

Marion WCARS-VEC

Walk-in exams at the Asheville Federal Bank on Main St. Sked: Feb. 13, Apr. 10, Jun. 12, Aug. 14, Nov. 13. Contact: Cecil D. Potter, WB4UCF, Rt. 4, Box 860, Marion, N.C. 28752. (704) 724-4007. Talk-in on 146.985.

New Bern WCARS-VEC

Walk-in exams held at New Bern High School at 9:00 a.m.. Sked: Mar. 27, Jul. 5. (Aug.-Dec. - coming later) Contact: Andy Griffith, W4ULD, 203 Lord Granville, Dr., Rt. 2, Morehead City, NC 28557. (919) 726-5924 or (919) 247-0967.

Raleigh

Examinations are conducted on the 1st Wednesday of even months. Pre-register by mail with SASE to AA4MY, 220 Carriage Trail, Raleigh, NC 27614.

Rocky Mount ARRL-VEC

The Tar River ARC will conduct walk-in exams for all classes at 9:00 a.m. at the Rocky Mount Childrens Museum, Sunset Park. Sked: Mar. 27, May 22, Jul. 24, Sep. 25, and Nov. 27. For further information contact: Bill Thomas, WF2G, 652 Short Spoon Circle, Rocky Mount, NC 27804 or call (919) 442-6131. Talk in on 147.12 or 224.22.

Rutherford County WCARS-VEC

FCC Exams are held at Isothermal College in Spindale on the 3rd Saturday, 1st Month of each quarter. Sked: Apr. 17, July 17, Oct. 17. Contact: A.B. Brackett, KO4BJ, Rt. 2, Box 242, Bostic, NC 28018 (704) 245-63344 or F. Bruce Tessinear, KD4OJ, P.O. Box 341, Henrietta, NC 28076. (704) 657-5464. Talkin on 147.24.

Salisbury W5YI-VEC

Salisbury VE team has Exams on 2nd Sunday of each month, at 1:00 p.m. Location is at the Rowan County Public Library. For more information contact: Isabelle Ledford, AB4UX, P.O. Box 826, Cooleemee, N.C. 27014. (704) 284-2414.

Spruce Pine WCARS-VEC

Exams held at Burnsville Public Library at 9:00 a.m. Sked: Feb. 13, May 15, Aug. 21, Nov. 13. Contact: David McCarty, KK4PW, 391 E. Main St., Burnsville, NC 28714 (704) 675-9044 or David L. Gillespie, WA4LLR, Box 33, Cane Branch Rd., Micaville, NC 28755 (704) 675-9942. Talkin on 147.375.

Tarboro ARRL/VEC

The Tar River ARC gives exams every two months at the Heritage Hospital in Tarboro at 9:00 a.m. Bring I.D., orig and copy of license. For further information or assistance, contact Bill Thomas WF2G, 652 Short Spoon Cir., Rocky Mt., NC 27804. (919) 442-6131 *(Ed. Note: brochure did not mention walk-in, however did not indicate pre-registration required. Suggest call.)*

Wilson

Pre-registration is recommended for exams on the 2nd Saturday of the month quarterly. Sessions will be held at the Wilson County Library Conference Room at 9:00 a.m. Sked: Feb. 20, May 15, Aug. 21, Nov. 20. Contact Tommy Evans, NE4J at (919) 291-1738 nights, (919) 237-1898 days for more information and to register.

Yadkinville VE Team

Walk-in FCC exams sponsored by the Bear Creek ARC are given on the 2nd Saturday of each month at the Yadkinville Elementary School on Rt. 601 at 10:00 a.m. For information call Steve Hutchens, N4DEY at (919) 961-8741.

Georgia

Augusta, ARRL-VEC

Walk-in exams conducted 2nd Saturday, every even month at Fort Gordon, Bldg. 20301 at 9:00 a.m. Sked: Feb. 13, Apr. 10, Jun. 12, Aug. 14, Oct. 9, Dec. 11. Contact: Ace Norton, NA4I (706) 798-5060. Talk-in 146.985.

Augusta WCARS-VEC

Walk-in exams on 2nd Saturday of each Odd numbered month at Sue Reynolds Community Center. Code tests at 10 a.m. Written elements at 11 a.m. Sked: Mar.13, May 8, Jul. 10, Sep. 11 and Nov. 13. Contact Jim Abercrombie, N4JA, 2360 Travis Pines Rd., Augusta, Ga. 30906. (404) 790-7802. Talk-In: 145.49.

(Metro Atlanta Area Examinations) Lawrenceville W5YI-VEC

Exams scheduled 1st Sunday each month at 2:00 p.m. at Jackson EMC, 461 Swanson Rd., Lawrenceville. Walk-ins accepted. Contact Duane Reynolds, WB2YAD, 962-9582.

Peachtree City CA-VEC

Exams scheduled 1st Saturdays at 9:00 a.m. at Peachtree City - City Hall. Take exit 12 off I-85 and go South on Hwy 74. Walk-ins ok. Contact Mike Murphy, KB4KZY, 487-7494.

Roswell CA-VEC

Exams scheduled 1st Monday of each month at 7:00 p.m. at the St. Ann Catholic Church, 4905 Roswell Rd., Marietta. For info, contact: Delaine McCarthy, KM4FV 993-9758.

Stone Mountain CA-VEC

Schedule is 2nd Saturday of each month, at 8:30 a.m. at Stone. Mt. Methodist Church, 5312 W. Mt. St. Walk-ins accepted. Contact Hal Martin, KI4RD, 469-6430.

Southern Tech CA-VEC

Exams on 3rd Saturday each month. Walk-ins accepted. 9:00 a.m., at Southern Tech, Room 4310, Academic Bldg.. (Exit 112 from I-75) Contact Hal Martin, KI4RD, 469-6430.

DeKalb County CA-VEC

Walk-in exams held 4th Thurs. of the month at 7:00 p.m. at DeKalb Co. Police, E. Precinct, Lithonia. Contact Harvey Pearson, WB4PHF, 972-5061.

North Atlanta ARRL-VEC

Walk-ins accepted for exams held on 4th Sunday each month at 2:30 p.m. at Church of the Atonement on Highpoint Rd. Contact Neil Foster, KC4MJ, 449-3340.

Dalton WCARS-VEC

Exams on last Saturday of each even numbered month at Unity Baptist Church at 3:00 p.m. Pre-registration only - send 610 to N4BZJ to arrive no later than day before exam. Sked: Feb. 27, Apr. 24, Jun. 26, Aug. 28, Oct. 30, Dec. 25?? Contact Bert L. Coker, N4BZJ, 2102 Millican Lane, Dalton, Ga. 30721. (706) 259-5625 or Harold W. Jones, N4OTC, P.O. Box 211, Rocky Face, Ga. 30740. (706) 673-2291. Talk-in: 147.315.

Kentucky

Hazard WCARS-VEC

Walk-in Exams held at Ray G. Eversole School. For exact dates and additional information, contact John Farler, K4AVX, 109 Hall St. Hazard, Ky 41701 (606) 436-5354.

Louisville WCARS-VEC

Walk-in exams are normally held the 3rd Saturday of odd numbered months at 10:00 a.m. - 2:00 p.m. at the Government Center, Outer Loop, 3 miles East I-65. Sked: Mar. 20, May 15, Jul. 17, (Sept. 25-26 Hamfest), Nov. 20. Contact Otis Herron AA4HJ, 4810 Hood Road, Louisville, KY 40213. (502) 969-7332. or Bob Happell, N4GLX, 2012 Ben All Road, Louisville, KY 40223. (502) 425-5260. Talk-in is on 147.18.

Middlesboro WCARS-VEC

Walk-in exams on 2nd Saturdays of each odd numbered month at Middlesboro Library. Sked: Mar. 13, May 8, Jul. 10, Sep. 11, Nov. 13. Contact: Andrew A. Pitt, WB8WEZ, P.O. Box 2164, Middlesboro, Ky 40965 (606) 248-0046 or James Dyke, KZ8A RR 1, Box 295AA, Cumberland Gap, Tn 37724 (615) 869-4453. Talk-in: 146.775.

South Carolina

Charleston WCARS-VEC & W5YI VEC

Walk-in Exams will be held third Saturday of each month at 9:00 a.m. at Trident Tech College on Rivers Ave. in North Charleston, Bldg. 630, Rm 130.. Even months by W5YI team, and odd months by WCARS team. Sked: Currently: Feb. 20, Mar. 20, April 17, May 15, June 19. Jul. 17, Sep. 18, Nov. 20. If holidays fall on a Sat or Sun. testing will be on the 2nd Saturday of that month. Contact: Ed Frank, 614 Longstreet Cir., Summerville, SC. (803) 871-4368. (W5YI) and Pat Foster, AC4IH, 117 Keenan Ave., Goose Creek, Sc. 29455, (803) 553-3871 or Werner E. Dolder, AA4IX, 3278 Heber Rd., Summerville, SC 29483 (803) 873-9465 (WCARS)

Columbia, WCARS-VEC

Walk-in exams held on third Saturday of even months, at the Red Cross Bldg., Bull Street and Harden Ext., in Columbia at 8:30 a.m. Sked: Feb. 20, Apr. 17, Jun. 19, Aug. 21, Oct. 16, Dec. 18. For info contact: Ray Rogers, N4WR, P.O. Box 550, Chapin, S.C. 29036. (803) 345-3373.

Greenville WCARS-VEC

Walk-in Exams 1st Saturday of each odd-numbered month at 8:30 a.m. at O'Neal Engr. Bldg. 850 S. Pleasantburg Dr. Sked: Mar. 6, May 1 At Hamfest, Jul. 10, Sep. 11, Nov. 6. Contact John Chism, ND4N, 203 Lanewood Dr., Greenville, SC 29607. (803) 288-0136. Talk-in 146.61

Lancaster W5YI-VEC

Novice thru Extra. Pre-Regis, or Walkins. 9:30 a.m. USC, Main Bldg. Talk-in: 10-70. Contact Grady Robinson, AK4N, 902 Forest Dr., Lancaster, SC 29720. (803) 283-8298. Call or write for dates.

Spartanburg WCARS-VEC

Exams 2nd Tuesday of each even-numbered month at 7:00 at Spartanburg Chapter of the American Red Cross on Garner Road. Walk-ins normally accepted. For information contact: Pete Theiler, KI4KN, P.O. Boxs 5369, Spartanburg, SC, 29304. Phone 585-4919 (night) 578-5566 (day)

Sumter WCARS-VEC

Walk-in exams are held each 3rd Saturday of each odd numbered month at the Abundant Faith Church on Hwy. 521. at 8:30 a.m. Sked: Mar. 20, May 15, Jul. 17, Sep. 18, Nov. 20. Contact: Dan Mask WB5SGH, 404 Sanders Drive, Sumter, SC 29150. (803) 775-9106.

Mississippi

Gulfport ARRL-W5YI VEC

Exams held at Harrison Cty. Courthouse in CD conf. room at 8:00 a.m. Contact for schedule, Stan Hecker, AA4SP (601) 875-9341 day and 875-0222 nights.

Ocean Springs ARRL-W5YI VEC

Exams will be held at 7:00 p.m. at Ocean Springs Library in meeting room. Pre-registration requested, limited walk-ins accepted. For exam schedules, contact Stan Hecker, AA4SP (601) 875-9341 day and 875-0222 nights.

Arkansas

West Memphis WCARS-VEC

Walk-in exams are held on 2nd Saturday of each month at 9:00 a.m. at the Rosewood United Meth. Ch. 2303 E. Barton Ave. Sked: Feb. 13, Mar. 13, Apr. 10, May 8, Jun. 12, Jul 10, Aug. 14, Sep. 11, Oct. 9, Nov. 13, Dec. 22. Contact: Gene Bagley, AB5BL, Rt. 1, Box 13, Dunhill Rd. N, Marion, AR 72364 (501) 739-4029, or Rev. Richard Gregory, AB4CH, 824 Pryor Dr., West Memphis, AR 72301. (501) 735-4060. Talkin on 147.15.

Indiana

New Albany, WCARS-VEC

Walk-in Exams are conducted on the 3rd Saturday of even numbered months from 10:00 a.m. - 2:00 p.m. at the Indiana University South, Grant Line Road. Sked: Feb. 20, Apr. 17, Jun. 19, Aug. 21, Oct. 16, Dec. 18. Contact Dick Truax, K8GVU, 3018 Gus Emmett Trail, Sellersburg, IN 47172. (812) 246-6377 or "Mac" McCrory, NM9A, 3148 Taylor Drive., Jeffersonville, In 47129 (812) 944-6661.

NOTE TO VEC/VEs

The Repeater Journal publishes at no charge exam schedules submitted in writing to the editor. The Journal assumes no responsibility for erroneous dates or information other than to publish corrected changes in future editions if timely.

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SERA Repeater Journal
Hamfest Calendar

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Corrected as of Jan. 27, 1993

FEBRUARY 1993

6 ..... Kerbella Hamfest (formerly Sevierville Hamfest) KNOXVILLE, TN
6-7 ..... Tropical Hamboree, MIAMI, FL
13 ..... Owensboro ARC Hamfest, OWENSBORO, KY
13 ..... Hamfest, PENSACOLA, FL
14 ..... Hamfest, ELKIN, NC
19-20 (Fri-Sat) ..... 14th Annual Hamfest & Computer Show, SARASOTA, FL
20 ..... Charleston ARS Hamfest, CHARLESTON, SC
20 ..... Hamfest, STUART, FL
21 ..... 15th Annual Hamfest, FAYETTEVILLE, WV
27 ..... Hernando Cty. ARAs 11th Annual Hamfest, BROOKSVILLE, FL
27 ..... Hamfest, DALTON, GA
27 ..... Appalachian AR Group Hamfest, LEBANON, PA
27-28 ..... Great Lakes Div. ARRL Conv./Hamfest, CINCINNATI, OH
28 ..... Vienna Wireless Soc. Winterfest, VIENNA, VA

MARCH 1993

6 ..... Mammoth Cave ARC Hamfest, CAVE CITY, KY
12-14 ..... Hamcation, ORLANDO, FL
12-14 ..... H amfest, LAFAYETTE, LA
13-14 ..... Roanoke Division ARRL Conv/Hamfest/Computer Show, CHARLOTTE, NC
14 ..... 6th Annual York Springfest, YORK, PA
20 ..... Kennehoochee ARC, MARIETTA, GA
20-21 ..... Swapfest, FT. WALTON BEACH, FL
27-28 ..... Hamfest, COLUMBUS, GA
27-28 ..... 22nd Baltimore Hamboree/Computerfest, at Fairgrnds., TIMONIUM, MD
28 ..... 3rd Annual *Downeast Hamfest*, KINSTON, NC

APRIL 1993

2-3 ..... Arkansas State ARRL Conv./Hamfest, N. LITTLE ROCK, AR
3 ..... 8th Annual CARS Chesapeake *Springfest 93*, VIRGINIA BEACH, VA
3 ..... GA State ARRL Conv./Central Georgia Nat'l Hamfest (Warner Robins), PERRY, GA
3 ..... Hamfest, ALBERTVILLE, AL
4 ..... NC State ARRL Conv/RARS Hamfest, RALEIGH, NC
4 ..... Hamfest/Computer Show, CHARLESTON, WV
10 ..... Hamfest, OAK RIDGE, TN
17 ..... Hamfest, GAINSVILLE, FL
17-18 ..... Old Natches ARC Hamfest, NATCHEZ, MS
24 ..... Hamfest, TALLEDEGA, AL
23-24-25 ..... 42nd Hamvention, (Hara Conf. & Exhib. Cen.), DAYTON, OH

MAY 1993

1-2 ..... 54th Hamfest At Anderson Cty Fairgrnds,GREENVILLE, SC
1-2 ..... Hamfest, BATON ROUGE, LA
8* ..... Jackson Cty Hamfest, RIPLEY, WV
9 ..... Hamfest, MEDINA, OH
15 ..... 32nd RVARC Hamfest - Mayfest '93, ROANOKE, VA
15-16 ..... ARRL State Conv./Hamfest, BIRMINGHAM, AL
15-16 ..... Andrsn, Hrtwl, Toccoa RC Hamfest, LAKE HARTWELL, GA
16 ..... TSRAC Hamfest, Computer Fair, WHEELING, WV
21-22-23 ..... Atlantic Division ARRL Conv./Hamfest, ROCHESTER, NY
29 ..... 19th Annual Dur-Ham-Fest, DURHAM, NC
30 ..... MD. FM Assn. Hamfest, (Howard Cty Fairgrnds), W. FRIENDSHIP, MD

JUNE 1993

5* ..... Clev. ARC Starfest, CLEVELAND, TN
5 ..... Amateur Radio & Computer Fair, KNOXVILLE, TN
5 ..... Athens RC Annual Hamfest, ATHENS, GA
6* ..... Hamfest, HUMBOLT, TN
6 ..... Ole Virginia Hams - Hamfest, MANASSAS, VA
6* ..... Hamfest, MUNCIE, OH
12 ..... Hamfest, WINSTON-SALEM, NC
13* ..... Northern Ky. ARC Hamfest, ERLANGER, KY
19* ..... Hamfest & Computer Fair, BLUEFIELD, WV
19-20 ..... Albany ARC Hamfest, ALBANY, GA
20* ..... Hamfest, FREDERICK, MD

JULY 1993

3-4 ..... West Va.State ARRL Conv/Hamfest, JACKSONS MILL, WV
9-10 ..... YLRL National Convention, WICHITA, KS
10* ..... TARC, Charleston II Summer HF & Computer Expo, CHARLESTON, SC
10 ..... NC Chapter TSRAC *Firecracker* Hamfest, SALISBURY, NC
11 ..... Summit ARAs Carrol Cty. Hamfest/Computer Show, WESTMINSTER, MD
17 ..... Mid-Summer Swapfest, CARY, NC
17-18 ..... SE ARRL Div. Conv/Hamfestival, ATLANTA, GA
24-25 ..... WCARS Asheville Hamfest, Haywood Cty. Fairgrnds, ASHEVILLE, NC
25* ..... BRATS Hamfest and Computer Fest, TIMONIUM, MD
31* ..... Hamfest, COLUMBUS, OH
31-Aug. 1 ..... Florida State ARRL Conv. - 20th Annual Hamfest, JACKSONVILLE, FL

AUGUST 1993

1 ..... 43rd Annual Winchester Hamfest, BERRYVILLE, VA
7* ..... Tri-State ARA Hamfest/Computer Show, HUNTINGTON, WV
7-8* ..... 5th Annual High Point RC Hamfest, HIGH POINT, NC
8* ..... Mid-Ohio Valley ARC Hamfest, PARKERSBURG, WV
8* ..... ARRL Central Hamfest, FRANKFORT, KY
13-15 ..... ARRL Nat'l Convention, Hamfest, HUNTSVILLE, AL
14-15* ..... ARK-LA-TEX Hamfest, SHREVEPORT, LA
21* ..... Hamfest, SPRUCE PINE, NC
21-22* ..... Hamfest, MADISON, GA
21-22* ..... Hamfest, MOBILE, AL
22* ..... GCARA Hamfest, CINCINNATI, OH
22 ..... St. Charles ARC Hamfest '93', ST. CHARLES, MO
29* ..... Short Mt. Rep Club Hamfest, CEDARS OF LEBANON, TN

SEPTEMBER 1993

4-5 ..... 36th Annual Hamfest, SHELBY, NC
11* ..... Statesboro ARS Hamfest, STATESBORO, GA
11-12* ..... Hamfest, MELBOURNE, FL
12 ..... Foundation AR Hamfest, GAITHERSBURG, MD
12* ..... Lanierland ARC Hamfest, GAINSVILLE, GA
18-19* ..... Hamfest & Computer Show, MOBILE, AL
25* ..... Danville/South Boston 2nd Annual Hamfest, DANVILLE, VA
25* ..... Hamfest, ANNISTON, AL
25* ..... TARA, Hamfest, HUNTINGTON, WV
25-26 ..... Hamfest, LOUISVILLE, KY
26* ..... Hamfest, CLEVELAND, OH

OCTOBER 1993

2* ..... Lanierland ARC Hamfest, GAINESVILLE, GA
2* ..... Hamfest, ROME, GA
2 ..... Sumner Cty ARA Hamfest, GALLATIN, TN
2 ..... 42nd Annual Hamfest & Computer Fair, ROCK HILL, SC
2-3 (Note New Date) ..... Hamfest/Computer Show, VIRGINIA BEACH, VA
2-3* ..... Miss. Coast ARA 17th Annual Ham/Swapfest, BILOXI, MS
9* ..... 40th Annual Hamfest/Computer Show, AUGUSTA, GA
9-10 ..... "Memfest '93" - Delta Division ARRL Conv./Hamfest, MEMPHIS, TN
9-10* ..... 13th Ham Com-Vention, HOUSTON, TX
10* ..... Hamfest, MAYSVILLE, NC
10 ..... 17th Annual CARA Hamfest, HOWARD CTY, MD
16* ..... Hamfest, TUSCALOOSA, AL
16* ..... Tri-Cities Hamfest, GRAY, TN
17* ..... Hamfest, SANFORD, NC
23-24 ..... Hamfest, CHATTANOOGA, TN
23-24* ..... Palm Beach RA Hamfest, W. PALM BEACH, FL
24* ..... Mason-Dixon Hamfest, WESTMINSTER, MD
24* ..... Hamfest, SUMTER, SC
30 ..... Swapfest '93, FOREST CITY/RUTHERFORDTON, NC

NOVEMBER 1993

6-7* ..... Ham Radio/Comp. Expo '93, LAWRENCEVILLE, GA
6-7* ..... Hamfest, FT. LAUDERDALE, FL
7* ..... Hamfest, CONCORD, NC
13* ..... TVARN Hamfest, COOKVILLE, TN
13 ..... Twin City Hams Hamfest, WEST MONROE, LA
13-14 ..... Indiana State ARRL Conv, Hamfest, FT. WAYNE, IN
14* ..... 5th Annual JARSFEST, BENSON, NC
14 ..... 16th Annual Hamfest, MONTGOMERY, AL
20-21* ..... Suncoast Conv. '93 TAMPA, FL
27-28* ..... Hamfest, GREENSBORO, NC

DECEMBER, 1993

4-5* ..... Wiregrass ARC Hamfest, DOTHAN, AL
5* ..... HolidayFest '93, LARGO, MD

CONFIRMED 1994 DATES

Apr. 29, 30, May 1 ..... 43rd Dayton Hamvention, DAYTON, OH
June 10-12 ..... ARRL National Convention, DALLAS, TX
Oct. 1 ..... Sumner Cty ARA Hamfest, GALLATIN, TN
Oct. 8-9 ..... Tennessee State ARRL Conv., MEMPHIS, TN

Please note: The ***Repeater Journal*** maintains Southeastern show dates on our Database. Unconfirmed shows are published quarterly from February and each issue until the quarter before the show date-then deleted. If the show is confirmed, we will publish each quarterly issue up to and including show date, free of charge. Hamfest dates marked with an asterisk(*) are NOT confirmed and are based on information on record from the previous year's date, with no guarantee of accuracy. Hamfest sponsors are urged to get their correct show dates to the ***Repeater Journal*** Editor as soon as possible, to take full advantage of being accurately listed in more ***Repeater Journal*** issues. We acknowledge assistance in confirming dates from *AutoCall, TSRAC AR News Bulletin, The Magnolia Report*, our ARRL Directors, and the response of many clubs and individuals sponsoring hamfests this year.

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SERA Board Votes For Dues Increases In Full and Associate Membership

It hadn't happened since 1987, mainly because of many different costcutting measures and increased efficience, and the success of added revenues from the Repeater Journal. But in 1993 it was inevitable and had to happen - a SERA Dues increase.

Upon recommendation of Ray Adams, N4BAQ, Treasurer (who is also a CPA) the SERA board reluctantly voted for dues increases in both Associate and Full Memberships.

"To maintain the standards this organization has tried to abide by, provide the service to our repeater owners we are expected to do, and to print a first class magazine, with none other like it in the nation, we cannot go on with existing income much longer," Adams told the Board, "Our 1992 figures show us what's ahead, and we cannot continue like this."

The dues increase is effective on April 1, 1993 for both Full and Associate Membership. Complete explanation of deadlines, and pro-rating of dues is explained on the respective membership applciations in this issue of the Repeater Journal.

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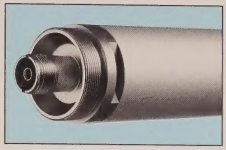

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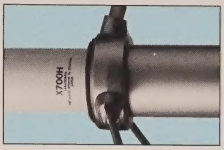

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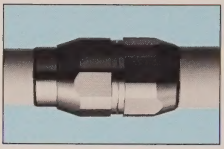

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X series

MODEL	BAND(MHz)	GAIN(dBd.)	WATTS	CONN.	HT. Ft.	RATED WIND/ MPH
X-50A	144/440	4.5/7.2	200	UHF	5.6	135
X-200A	144/440	6.0/8.0	200	UHF	8.3	112
X-300A	144/440	6.5/9.0	200	UHF	10.2	112
X-510NA	144/440	8.3/11.7	200	N	17.2	90
X-510MA	144/440	8.3/11.7	200	UHF	17.0	90
X-500HNA	144/440	8.3/11.7	200	N	17.8	90+
X-700HA	144/440	9.3/13.0	200	UHF	24.0	90
X-2200A	144/222	6.0/7.8	150	UHF	11.5	112
X-3200A	144/222/440	6.0/7.8/8:0	100/200	N	10.5	112
X-6000A	144/440/1240	6.5/9.0/10.0	100/100/60	N	10.5	112

BAND: 144=144 - 148MHz. 222=222 - 225MHz. 420=420 - 430MHz.
430=430 - 440MHz. 440=440 - 450MHz. 1240=1240 - 1300MHz.
* X510NJ :144 - 147 / 430 -440MHz

147MHz

445MHz

RADIATION PATTERNS FOR X-500HNA/X-500MA/X-510NA

X510

GH/F/U&V series

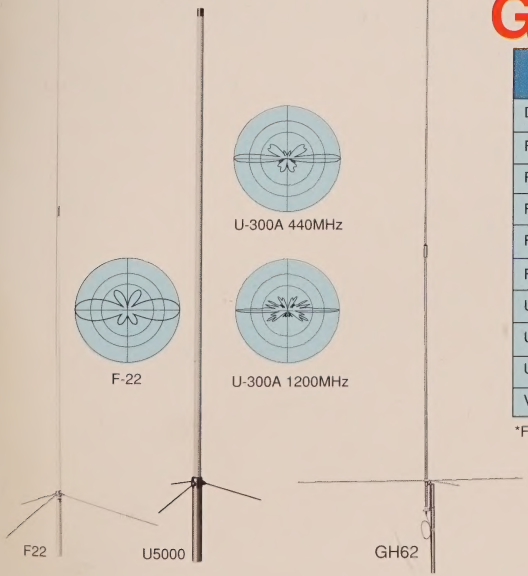
MODEL	BAND(MHz)	GAIN(dBd.)	WATTS	CON N.	HT. Ft.	RATED WIND/ MPH
DP-GH62	50	6.0	200	UHF	21.0	78
F-22A	144	6.7	200	UHF	10.5	112
F-23A	144	7.8	200	UHF	15.0	90
F-142A	222	5.5	200	UHF	6.0	110
F-718A*	440	11.5	250	N	15.0	110
F-1230A	1240	13.5	100	N	10.5	90
U-200A	440/1240	8.3/11.7	100	N	5.9	135
U-300A	440/1240	8.6/13.2	100	N	8.3	110
U-5000A	144/440/1240	4.5/8.3/11.7	100	N	5.9	135
V-2000A	50/144/440	2.1/6.2/8.4	150	UHF	8.3	110

*F-718A:440 - 450MHz, F-718J:430 - 440MHz, F-718L:420 - 430MHz

U-300A 440MHz

F-22

U-300A 1200MHz



F22 U5000 GH62

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This unit has built in DSQ for paging, CTCSS encode and decode standard, various scanning functions, 3 power level selections for each band, bell function, and an illuminated keypad.

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Specifications and features are subject to change without notice or obligation.